

Instructional Guide



RECONSTITUTION OF IDELVION USING THE MIX2VIAL® TRANSFER SET

The only FDA-approved treatment for hemophilia B
with up to 14-day dosing*

*In appropriate people 12 years and older. Talk to your doctor.

**Please see full Important Safety Information inside.
Please see accompanying full prescribing information.**

**IDELVION®**
Coagulation Factor IX (Recombinant), Albumin Fusion Protein

IDELVION RECONSTITUTION INSTRUCTIONS

1.



Prepare vials

- Place the IDELVION vial, diluent vial, and Mix2Vial® transfer set on a flat surface.
- Remove flip caps from the IDELVION and Sterile Water for Injection (diluent) vials.
- Wipe the stoppers with the sterile alcohol swab provided and allow to dry prior to opening the Mix2Vial transfer set package.
- Open the Mix2Vial transfer set package by peeling away the lid. Do not remove the device from the package.

2.



Connect Mix2Vial transfer set to diluent vial

- Place the diluent vial on a flat surface and hold the vial tightly. Grip the Mix2Vial transfer set together with the clear package and push the plastic spike at the blue end of the Mix2Vial transfer set firmly through the center of the stopper of the diluent vial.

3.



Pull off package

- Carefully remove the clear package from the Mix2Vial transfer set. Do not remove the Mix2Vial transfer set or touch the exposed end of the device.

4.



Connect diluent vial and Mix2Vial transfer set to IDELVION vial

- With the IDELVION vial placed firmly on a flat surface, invert the diluent vial with the Mix2Vial transfer set attached and push the plastic spike of the transparent adapter firmly through the center of the stopper of the IDELVION vial. The diluent will automatically transfer into the IDELVION vial.
- With the diluent and IDELVION vial still attached to the Mix2Vial transfer set, gently swirl the IDELVION vial to ensure that the powder is fully dissolved. Do not shake the vial. The reconstituted solution should be a clear, yellow to colorless solution. Do not use if particulate matter or discoloration is observed.

5.



Unscrew empty diluent vial

- With one hand, grasp the IDELVION side of the Mix2Vial transfer set and with the other hand grasp the blue diluent-side of the Mix2Vial transfer set, and unscrew the set into two pieces.

6.



Load syringe

- Draw air into an empty, sterile syringe. While the IDELVION vial is upright, screw the syringe to the Mix2Vial transfer set. Inject air into the IDELVION vial.
- While keeping the syringe plunger pressed, invert the system upside down and draw the concentrate into the syringe by pulling the plunger back slowly.

7.



Disconnect syringe

- Disconnect the filled syringe by unscrewing it from the Mix2Vial transfer set.
- Use immediately or within 4 hours of reconstitution. Store reconstituted solution at room temperature. Do not refrigerate.
- If the dose requires more than one vial, use a separate, unused Mix2Vial transfer set and Sterile Water for Injection (diluent) vial for each product vial. Repeat step 6 to pool the contents of the vials into one syringe.

Important Safety Information

IDELVION is used to control and prevent bleeding episodes in people with hemophilia B. Your doctor might also give you IDELVION before surgical procedures. Used regularly as prophylaxis, IDELVION can reduce number of bleeding episodes.

IDELVION is administered by intravenous injection into the bloodstream, and can be self-administered or administered by a caregiver. Do not inject IDELVION without training and approval from your healthcare provider or hemophilia treatment center.

Tell your healthcare provider of any medical condition you might have, including allergies and pregnancy, as well as all medications you are taking. Do not use IDELVION if you know you are allergic to any of its ingredients, including hamster proteins. Tell your doctor if you previously had an allergic reaction to any FIX product.

Stop treatment and immediately contact your healthcare provider if you see signs of an allergic reaction, including a rash or hives, itching, tightness of chest or throat, difficulty breathing, lightheadedness, dizziness, nausea, or a decrease in blood pressure.

Your body can make antibodies, called inhibitors, against Factor IX, which could stop IDELVION from working properly. You might need to be tested for inhibitors from time to time. IDELVION might also increase the risk of abnormal blood clots in your body, especially if you have risk factors. Call your healthcare provider if you have chest pain, difficulty breathing, or leg tenderness or swelling.

In clinical trials for IDELVION, headache was the only side effect occurring in more than 1 % of patients (1.8%), but is not the only side effect possible. Tell your healthcare provider about any side effect that bothers you or does not go away, or if bleeding is not controlled with IDELVION.

Please see accompanying full prescribing information for IDELVION, including patient product information.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch, or call **1-800-FDA-1088**.

IDELVION PREPARATION AND RECONSTITUTION INSTRUCTIONS

- Reconstitute IDELVION using aseptic technique with diluent provided in the Mix2Vial kit.
- Do not use IDELVION beyond the expiration date on the vial label and carton.
- Visually inspect the reconstituted solution for particulate matter prior to administration. The solution should be free from visible particles. Do not use if particulate matter is observed.
- IDELVION is for single use only. Contains no preservatives. Discard partially used vials.

IDELVION ADMINISTRATION REMINDERS

- Do not mix IDELVION with other medicinal products.
- Administer by intravenous injection. The rate of administration should be determined by the patient's comfort level.
- Use aseptic technique when administering IDELVION.
- Administer IDELVION at room temperature. The IDELVION vial and Sterile Water for Injection vial should be at room temperature prior to mixing.
- No blood should enter the syringe, as there is the possibility of fibrin clot formation.
- IDELVION is for single use only. Following administration, discard any unused solution and all administration equipment in an appropriate manner as per local requirements.

IDELVION SUPPORT

CALL
1-800-676-4266
FOR MORE INFORMATION

**The only FDA-approved treatment for
hemophilia B with up to 14-day dosing***

*In appropriate people 12 years and older. Talk to your doctor.

www.IDELVION.com

**Please see full Important Safety Information inside.
Please see accompanying full prescribing information.**



IDELVION is manufactured by CSL Behring GmbH and distributed by CSL Behring LLC.
IDELVION® is a registered trademark of CSL Behring Recombinant Facility AG.
Mix2Vial® is a registered trademark of Medimop Medical Projects Ltd.
Biotherapies for Life® is a registered trademark of CSL Behring LLC.
©2018 CSL Behring LLC 1020 First Avenue, PO Box 61501, King of Prussia, PA 19406-0901 USA
www.CSLBehring.com www.IDELVION.com IDL-0126-MAY18

**IDELVION®**
Coagulation Factor IX (Recombinant), Albumin Fusion Protein

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use IDELVION safely and effectively. See full prescribing information for IDELVION.

**IDELVION® [Coagulation Factor IX (Recombinant), Albumin Fusion Protein]
Lyophilized Powder for Solution for Intravenous Injection
Initial U.S. Approval: 2016**

INDICATIONS AND USAGE

IDELVION, Coagulation Factor IX (Recombinant), Albumin Fusion Protein (rIX-FP), a recombinant DNA-derived coagulation Factor IX concentrate, is indicated in children and adults with Hemophilia B (congenital Factor IX deficiency) for:

- On-demand treatment and control of bleeding episodes
- Perioperative management of bleeding
- Routine prophylaxis to reduce the frequency of bleeding episodes

Limitations of Use:

IDELVION is not indicated for immune tolerance induction in patients with Hemophilia B. (1)

DOSAGE AND ADMINISTRATION

For intravenous use after reconstitution only.

Each vial of IDELVION is labeled with the actual Factor IX potency in international units (IU). (2.1)

- One IU of IDELVION per kg body weight is expected to increase the circulating activity of Factor IX as follows:
 - Adolescents and adults: 1.3 IU/dL per IU/kg (2.1)
 - Pediatrics (<12 years): 1 IU/dL per IU/kg (2.1)
- Administer intravenously. Do not exceed infusion rate of 10 mL per minute. (2.3)

On-demand treatment and control of bleeding episodes and perioperative management:

- Dosage and duration of treatment with IDELVION depends on the severity of the Factor IX deficiency, the location and extent of bleeding, and the patient's clinical condition, age and recovery of Factor IX. (2.1)
- Determine the initial dose using the following formula:
- Required Dose (IU) = Body Weight (kg) x Desired Factor IX rise (% of normal or IU/dL) x (reciprocal of recovery (IU/kg per IU/dL)) (2.1)
- Adjust dose based on the patient's clinical condition and response. (2.1)

Routine prophylaxis:

- Patients ≥12 years of age: 25-40 IU/kg body weight every 7 days. Patients who are well-controlled on this regimen may be switched to a 14-day interval at 50-75 IU/kg body weight. (2.1)
- Patients <12 years of age: 40-55 IU/kg body weight every 7 days. (2.1)

DOSAGE FORMS AND STRENGTHS

IDELVION is available as a lyophilized powder in single-use vials containing nominally 250, 500, 1000, 2000, or 3500 IU. (3)

CONTRAINDICATIONS

Do not use in patients who have had life-threatening hypersensitivity reactions to IDELVION or its components, including hamster proteins. (4)

WARNINGS AND PRECAUTIONS

- Hypersensitivity reactions, including anaphylaxis, are possible. Should symptoms occur, discontinue IDELVION and administer appropriate treatment. (5.1)
- Development of neutralizing antibodies (inhibitors) to IDELVION may occur. If expected Factor IX plasma recovery in patient plasma is not attained, or if bleeding is not controlled with an appropriate dose, perform an assay that measures Factor IX inhibitor concentration. (5.2, 5.5)
- Thromboembolism (e.g., pulmonary embolism, venous thrombosis, and arterial thrombosis) may occur when using Factor IX-containing products. (5.3)
- Nephrotic syndrome has been reported following immune tolerance induction with Factor IX-containing products in hemophilia B patients with Factor IX inhibitors and a history of allergic reactions to Factor IX. (5.4)
- Factor IX activity assay results may vary with the type of activated partial thromboplastin time reagent used. (5.5)

ADVERSE REACTIONS

The most common adverse reaction (incidence ≥1%) reported in clinical trials was headache. (6)

To report SUSPECTED ADVERSE REACTIONS, contact CSL Behring Pharmacovigilance Department at 1-866-915-6958 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

USE IN SPECIFIC POPULATIONS

- Pediatric: Higher dose per kilogram body weight or more frequent dosing may be needed. (8.4)

See 17 for PATIENT COUNSELING INFORMATION and FDA-approved patient labeling.

Revised: May 2018R

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IDELVION® Coagulation Factor IX (Recombinant), Albumin Fusion Protein (rIX-FP)

1 INDICATIONS AND USAGE

IDELVION®, Coagulation Factor IX (Recombinant), Albumin Fusion Protein (rIX-FP), a recombinant DNA-derived coagulation Factor IX concentrate, is indicated in children and adults with Hemophilia B (congenital Factor IX deficiency) for:

- On-demand treatment and control of bleeding episodes
- Perioperative management of bleeding
- Routine prophylaxis to reduce the frequency of bleeding episodes

Limitations of Use:

IDELVION is not indicated for immune tolerance induction in patients with Hemophilia B.

2 DOSAGE AND ADMINISTRATION

For intravenous use after reconstitution only.

2.1 Dosage

- Each vial of IDELVION contains the recombinant Factor IX potency in international units (IU) that is stated on the carton and vial label.
- Dosage and duration of treatment with IDELVION depends on the severity of Factor IX deficiency, the location and extent of bleeding, and the patient's clinical condition, age and recovery of Factor IX.
- The calculation of the required dose of IDELVION is based on the empirical finding that one IU of IDELVION per kg body weight is expected to increase the circulating level of Factor IX by 1.3 IU/dL in patients ≥12 years of age and by 1 IU/dL in patients <12 years of age. The required dose of IDELVION for treatment of bleeding episodes is determined using the following formula:

$$\text{Required Units (IU)} = \text{Body Weight (kg)} \times \text{Desired Factor IX rise (\% of normal or IU/dL)} \times \text{reciprocal of recovery (IU/kg per IU/dL)}$$

OR

$$\text{Increase in Factor IX IU/dL (or \% of normal)} = \text{Dose (IU)} \times \text{Recovery (IU/dL per IU/kg/body weight (kg))}$$

- Adjust the dose based on the individual patient's clinical condition and response.

On-demand Treatment and Control of Bleeding Episodes

A guide for dosing IDELVION for the on-demand treatment and control of bleeding episodes is provided in Table 1. Dosing should aim at maintaining a plasma Factor IX activity level at or above the plasma levels (in % of normal or IU/dL) outlined in Table 1.

Table 1. Dosing for On-demand Treatment and Control of Bleeding Episodes

Type of Bleeding Episode	Circulating Factor IX Activity Required [% or (IU/dL)]	Frequency of Dosing (hours)	Duration of Therapy (days)*
Minor or Moderate Uncomplicated hemarthrosis, muscle bleeding (except iliopsoas) or oral bleeding	30-60	48-72	At least 1 day, until bleeding stops and healing is achieved. Single dose should be sufficient for majority of bleeds.
Major Life or limb threatening hemorrhage, deep muscle bleeding, including iliopsoas, intracranial, retropharyngeal	60-100	48-72	7-14 days, until bleeding stops and healing is achieved. Maintenance dose weekly.

* Adapted from the WFH Guidelines for the Management of Hemophilia.

Perioperative Management of Bleeding

A guide for dosing IDELVION for perioperative management of bleeding is provided in Table 2.

Table 2. Dosing for Perioperative Management of Bleeding

Type of Surgery	Circulating Factor IX Activity Required [% or (IU/dL)]	Frequency of Dosing (hours)	Duration of Therapy (days)*
Minor (including uncomplicated tooth extraction)	50-80	48-72	At least 1 day, or until healing is achieved. Single dose should be sufficient for a majority of minor surgeries.
Major (including intracranial, pharyngeal, retropharyngeal, retroperitoneal)	60-100 (initial level)	48-72	7-14 days, or until bleeding stops and healing is achieved. Repeat dose every 48-72 hours for the first week or until healing is achieved. Maintenance dose 1-2 times per week.

* Adapted from the WFH Guidelines for the Management of Hemophilia.

Routine Prophylaxis

For patients ≥12 years of age, the recommended dose is 25-40 IU IDELVION per kg body weight every 7 days. Patients who are well-controlled on this regimen may be switched to a 14-day interval at 50-75 IU IDELVION per kg body weight [see *Clinical Studies* (14)]. For patients <12 years of age, the recommended dose is 40-55 IU per kg body weight every 7 days.

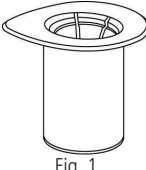
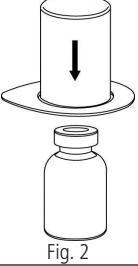
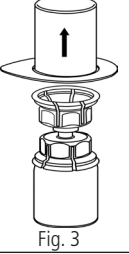
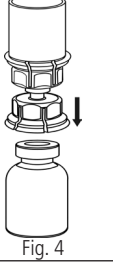

Adjust the dosing regimen based on individual response.

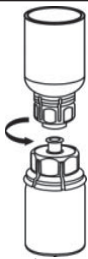
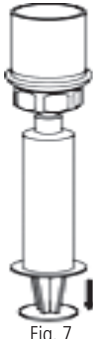

2.2 Preparation and Reconstitution

The procedures below are provided as general guidelines for the preparation and reconstitution of IDELVION.

- Always work on a clean surface and wash your hands before performing the following procedures.
- Use aseptic technique during the reconstitution procedure.
- Reconstitute IDELVION using the diluent (Sterile Water for Injection) and transfer device (Mix2Vial) provided in the kit.
- To administer, you will also need a syringe and suitable needle (not provided).
- Ensure the vials of IDELVION and the Sterile Water for Injection are at room temperature before mixing.
- The reconstitution is performed as described in Table 3.

Table 3. IDELVION Reconstitution Instructions

1. Place the IDELVION vial, diluent vial, and Mix2Vial® transfer set on a flat surface.	
2. Remove flip caps from the IDELVION and Sterile Water for Injection (diluent) vials.	
3. Wipe the stoppers with the sterile alcohol swab provided and allow to dry prior to opening the Mix2Vial transfer set package.	
4. Open the Mix2Vial transfer set package by peeling away the lid (Fig. 1). Do not remove the device from the package.	
5. Place the diluent vial on a flat surface and hold the vial tightly. Grip the Mix2Vial transfer set together with the clear package and push the plastic spike at the blue end of the Mix2Vial transfer set firmly through the center of the stopper of the diluent vial (Fig. 2).	
6. Carefully remove the clear package from the Mix2Vial transfer set. Do not remove the Mix2Vial transfer set or touch the exposed end of the device (Fig. 3).	
7. With the IDELVION vial placed firmly on a flat surface, invert the diluent vial with the Mix2Vial transfer set attached and push the plastic spike of the transparent adapter firmly through the center of the stopper of the IDELVION vial (Fig. 4). The diluent will automatically transfer into the IDELVION vial.	
8. With the diluent and IDELVION vial still attached to the Mix2Vial transfer set, gently swirl the IDELVION vial to ensure that the powder is fully dissolved (Fig. 5). Do not shake the vial.	

9. With one hand, grasp the IDELVION side of the Mix2Vial transfer set and with the other hand grasp the blue diluent-side of the Mix2Vial transfer set, and unscrew the set into two pieces (Fig. 6).	 Fig. 6
10. Draw air into an empty, sterile syringe. While the IDELVION vial is upright, screw the syringe to the Mix2Vial transfer set. Inject air into the IDELVION vial.	
11. While keeping the syringe plunger pressed, invert the system upside down and draw the concentrate into the syringe by pulling the plunger back slowly (Fig. 7).	 Fig. 7
12. Disconnect the filled syringe by unscrewing it from the Mix2Vial transfer set (Fig. 8). The reconstituted solution should be a clear or yellow to colorless solution. Do not use if particulate matter or discoloration is observed.	 Fig. 8
13. Use immediately or within 4 hours of reconstitution. Store reconstituted solution at room temperature. Do not refrigerate.	
14. If the dose requires more than one vial, use a separate, unused Mix2Vial transfer set and Sterile Water for Injection (diluent) vial for each product vial. Repeat steps 10-12 to pool the contents of the vials into one syringe.	

2.3 Administration

For intravenous injection only.

- Do not mix or administer IDELVION in the same tubing or container with other medicinal products.
- Visually inspect the final solution for particulate matter and discoloration prior to administration, and whenever solution and container permit. Do not use if particulate matter or discoloration is observed.
- Attach the syringe containing the reconstituted IDELVION solution to a sterile infusion set and administer by intravenous injection. Adapt the infusion rate to the comfort level of each patient, not exceeding 10 mL per minute.
- Administer IDELVION at room temperature and within 4 hours of reconstitution. Discard any unused product.

3 DOSAGE FORMS AND STRENGTHS

IDELVION is a pale yellow to white lyophilized powder supplied in single-use vials containing nominally 250, 500, 1000, 2000, or 3500 IU of Factor IX potency. The actual factor IX potency is labeled on each vial and carton.

4 CONTRAINDICATIONS

IDELVION is contraindicated in patients who have had life-threatening hypersensitivity reactions to IDELVION, or its components, including hamster proteins [see *Warnings and Precautions* (5.1)].

5 WARNINGS AND PRECAUTIONS

5.1 Hypersensitivity Reactions

Hypersensitivity reactions, including anaphylaxis, are possible. Early signs of hypersensitivity reactions, which can progress to anaphylaxis include angioedema, chest tightness, hypotension, generalized urticaria, wheezing, and dyspnea. If hypersensitivity symptoms occur, immediately discontinue administration and initiate appropriate treatment. IDELVION contains trace amounts of Chinese hamster ovary (CHO) proteins. Patients treated with this product may develop hypersensitivity to these non-human mammalian proteins.

5.2 Neutralizing Antibodies

The formation of neutralizing antibodies (inhibitors) to Factor IX may occur. Monitor all patients treated with IDELVION for the development of neutralizing antibodies (inhibitors) by appropriate clinical observations or laboratory tests. Perform an assay that measures Factor IX inhibitor concentration if expected plasma Factor IX activity levels are not attained, or if the bleeding is not controlled with an appropriate dose. Patients with Factor IX inhibitors are at an increased risk of severe hypersensitivity reactions or anaphylaxis if re-exposed to Factor IX. Evaluate patients experiencing allergic reactions for the presence of an inhibitor and closely monitor patients with inhibitors for signs and symptoms of acute hypersensitivity reactions, particularly during early phases of exposure to the product [see *Warnings and Precautions* (5.1)].

5.3 Thromboembolic Complications

Thromboembolism (e.g., pulmonary embolism, venous thrombosis, and arterial thrombosis) may occur when using Factor IX-containing products. Because of the potential risk for thromboembolism with the use of Factor IX products, monitor for early signs of thromboembolism and consumptive coagulopathy when administering IDELVION to patients with liver disease, fibrinolysis, perioperative status, or risk factors for thromboembolic events or disseminated intravascular coagulation.

5.4 Nephrotic Syndrome

Nephrotic syndrome has been reported following attempted immune tolerance induction in hemophilia B patients with Factor IX inhibitors and a history of allergic reactions. The safety and efficacy of using IDELVION for immune tolerance induction have not been established.

5.5 Monitoring Laboratory Tests

- Monitor Factor IX plasma levels by a one-stage clotting assay to confirm that adequate Factor IX levels have been achieved and maintained [see *Dosage and Administration* (2.1)]. Factor IX activity assay results may vary with the type of activated partial thromboplastin time (aPTT) reagent used in the assay system.¹ For example, kaolin-based aPTT reagents along with other reagents designed to exhibit low responsiveness to lupus anticoagulant² have been shown to result in approximately 50% lower than expected recovery based on labeled potency.
- Consistent with similar findings for other recombinant Factor IX products, overestimation of Factor IX activity in spiked samples of IDELVION (mean overestimation 32%) occurred at low Factor IX levels with commonly used aPTT reagents.³
- Monitor patients for the development of inhibitors if expected Factor IX activity plasma levels are not attained, or if bleeding is not controlled with the recommended dose of IDELVION. Assays used to determine if a Factor IX inhibitor is present should be titrated in Bethesda Units (BUs).

6 ADVERSE REACTIONS

The most common adverse reaction (incidence $\geq 1\%$) reported in clinical trials was headache.

6.1 Clinical Trials Experience

Because clinical studies are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in clinical practice. In five multicenter, prospective, open-label clinical trials with IDELVION, 111 previously treated patients (PTPs; exposed to a Factor IX-containing product for ≥ 100 exposure days) received at least one infusion of IDELVION as part of on-demand treatment of bleeding episodes, perioperative management of major and minor surgical, dental, or other invasive procedures, routine prophylaxis, or pharmacokinetic evaluation. Twenty-seven children were <12 years of age, 9 adolescents were 12 to <18 years of age, and 75 adults were ≥ 18 to ≤ 65 years of age. A total of 8,274 injections were administered over a median of 600 days (range: 25 to 1,288 days). Adverse reactions that occurred in $>0.5\%$ of subjects are listed in Table 4.

Table 4. Summary of Adverse Reactions

MedDRA Standard System Organ Class	Adverse Reaction	Number of subjects n (%), (N=111)
Nervous system disorders	Headache	2 (1.8)
	Dizziness	1 (0.9)
Immune system disorders	Hypersensitivity	1 (0.9)
Skin and subcutaneous tissue disorders	Rash	1 (0.9)
	Eczema	1 (0.9)

6.2 Immunogenicity

All subjects were monitored for inhibitory and binding antibodies to rIX-FP (specifically rFIX, pdFIX and albumin), and binding antibodies to CHO host cell proteins at the following time points: at screening, at 2-4 weeks, 12 weeks following the first infusion of IDELVION, every 3 months thereafter (every 6 months for binding antibodies in children). No subjects developed antibodies to Factor IX, or non-neutralizing antibodies against factor IX, albumin and CHO protein at any of the time points following infusion of IDELVION. The detection of antibody formation is highly dependent on the sensitivity and specificity of the assay. Additionally, the observed incidence of antibody (including neutralizing antibody) positivity in an assay may be influenced by several factors including assay methodology, sample handling, timing of sample collection, concomitant medications, and underlying disease. For these reasons, it may be misleading to compare the incidence of antibodies to IDELVION in the studies described above with the incidence of antibodies in other studies or to other products.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

There are no data with IDELVION use in pregnant women to inform on drug-associated risk. Animal reproduction studies have not been conducted using IDELVION. It is not known whether IDELVION can cause fetal harm or affect reproduction capacity when administered to a pregnant woman. IDELVION should be given to a pregnant woman only if clearly needed. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2-4% and 15-20%, respectively.

8.2 Lactation

Risk Summary

There is no information regarding the excretion of IDELVION in human milk, the effect on the breastfed infant, or the effects on milk production. The developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for IDELVION and any potential adverse effects on the breastfed infant from IDELVION or from the underlying maternal condition.

8.4 Pediatric Use

In clinical studies that included 34 subjects <18 years old, the prophylactic administration with IDELVION every 7 days was successful in prevention of spontaneous bleeding episodes requiring treatment [see Clinical Studies (14)]. Of these, 7 subjects were ≥12 and <18 years old; 5 of these subjects switched to a 10- or 14-day prophylactic administration with IDELVION. There were no apparent differences in the safety profile in subjects <18 years as compared to adults [see Adverse Reactions (6.1)].

Compared to adults, incremental rIX-FP recovery appeared to be slightly lower and body weight-adjusted clearance appeared to be higher. Children may have higher Factor IX body weight-adjusted clearance, shorter half-life, and lower recovery. Higher dose per kilogram body weight or more frequent dosing may be needed in these patients [see Dosage and Administration (2.1) and Clinical Pharmacology (12.3)].

8.5 Geriatric Use

Clinical studies of IDELVION did not include subjects over 65 years to determine whether or not they respond differently from younger subjects.

11 DESCRIPTION

IDELVION, Coagulation Factor IX (Recombinant), Albumin Fusion Protein (rIX-FP) is a sterile, non-pyrogenic, lyophilized powder to be reconstituted with sterile Water for Injection (sWFI) for intravenous administration. IDELVION is available in single-use vials containing nominally 250, 500, 1000, 2000, or 3500 IU of Factor IX formulated with sodium citrate, polysorbate 80, mannitol and sucrose. The actual amount of Factor IX activity in IU is labeled on each vial. After reconstitution of the lyophilized powder, all dosage strengths yield a clear, yellow to colorless solution. IDELVION contains no preservatives.

The active ingredient in IDELVION, recombinant human coagulation Factor IX albumin fusion protein, is a purified protein produced by recombinant DNA technology. It is generated by the genetic fusion of recombinant albumin to recombinant coagulation Factor IX. The genetic fusion of the cDNA of human albumin to the cDNA of human coagulation Factor IX enables the gene product to be expressed as a single recombinant protein designated as rIX-FP. The Factor IX portion of IDELVION is identical to the Thr148 allelic form of human plasma-derived Factor IX. The cleavable linker between the Factor IX and albumin moieties is derived from the endogenous activation peptide in native Factor IX. rIX-FP remains intact in the circulation until Factor IX is activated, whereupon albumin is cleaved from Factor IX, releasing activated Factor IX (FIXa) when it is needed for coagulation.

IDELVION is manufactured without the addition of proteins derived from human or animal source materials. IDELVION is a glycoprotein consisting of 1018 amino acids secreted by a genetically engineered Chinese hamster ovary (CHO) cell line. The CHO cell line secretes rIX-FP into a defined cell culture medium and the rIX-FP protein is purified by a process that does not require the use of a monoclonal antibody reagent. The manufacturing process incorporates three validated virus clearance steps, including virus inactivation by solvent/detergent treatment and virus removal by filtration.

The potency expressed in International Units is determined using an in vitro aPTT-based one-stage clotting assay against CSL Behring's manufacturing reference standard. This internal potency standard has been calibrated against the World Health Organization (WHO) International Standard for Factor IX concentrate by a one-stage clotting assay using synthetic silica and synthetic phospholipid-based reagents.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

IDELVION is a recombinant protein that temporarily replaces the missing coagulation Factor IX needed for effective hemostasis. IDELVION is comprised of genetically fused recombinant coagulation Factor IX and recombinant albumin. Fusion with recombinant albumin extends the half-life of Factor IX [see Description (11) and Clinical Pharmacology (12.3)].

12.2 Pharmacodynamics

The administration of IDELVION increases plasma levels of Factor IX and can temporarily correct the coagulation defect in patients.

12.3 Pharmacokinetics

Adults ≥18 years

The pharmacokinetic (PK) profiles of IDELVION were evaluated following an intravenous injection of a single dose of 25, 50 or 75 IU/kg. The PK parameters were based on plasma Factor IX activity measured by the one-stage clotting assay. Blood samples for PK analysis were collected prior to dosing and up to 336 hours (14 days) after dosing.

Table 5 provides the pharmacokinetic parameters following a single 25 IU/kg, 50 IU/kg, or 75 IU/kg dose of IDELVION.

Table 5. Pharmacokinetic Parameters (Arithmetic Mean, CV%) Following a Single 25 IU/kg, 50 IU/kg, or 75 IU/kg Dose of IDELVION

PK Parameters	rIX-FP 25 (IU/kg) (N=7)	rIX-FP 50 (IU/kg) (N=47)	rIX-FP 75 (IU/kg) (N=8)
IR (IU/dL)/(IU/kg)	1.65 (11)	1.30 (24)	1.08 (20)
C _{max} (IU/dL)	41.1 (13)	66.6 (27)	82.0 (20)
AUC _{0-inf} (h*IU/dL)	4658 (36)	7482 (28)	9345 (20)
t _{1/2} (hours)	118 (38)	104 (25)	104 (18)
MRT (hours)	153 (24)	143 (23)	145 (14)
CL (mL/h/kg)	0.57 (31)	0.73 (27)	0.84 (20)
Vss (dL/kg)	0.86 (32)	1.02 (28)	1.20 (23)
Time to 1% Factor IX Activity (days)*	22 (25)	23 (19)	25 (13)
Time to 3% Factor IX Activity (days)*	14 (19)	17 (19)	18 (13)
Time to 5% Factor IX Activity (days)*	10 (25)	13 (20)	15 (13)

* = Estimated time to mean Factor IX activity maintained above the pre-specified percent (%)

IR = incremental recovery recorded 30 minutes after injection; AUC = area under the Factor IX activity time curve; t_{1/2} = half-life; MRT = mean residence time; CL = body weight adjusted clearance; Vss = body weight adjusted volume of distribution at steady-state.

IDELVION PK parameters following single or repeat dosing for up to 30 weeks were similar.

Subjects <18 years

Pharmacokinetics parameters of IDELVION were evaluated in 5 adolescents (12 to <18 years of age) and 27 children (0 to <12 years of age) in open-label, multi-center studies following a 50 IU/kg intravenous injection of IDELVION. The PK samples were collected prior to dosing and at multiple time points up to 336 hours (14 days) after dosing.

Table 6 summarizes the PK parameters calculated from the pediatric data of 32 subjects, 0 to <18 years of age. The parameters estimated were based on the plasma Factor IX activity over time profile. Compared to adults, incremental recovery is lower (15% to 27%) and body weight-adjusted clearance is higher (45% to 62%) in children.

Table 6. Pharmacokinetic Parameters (Arithmetic Mean, CV%) of IDELVION Following a Single 50 IU/kg Dose

PK Parameters	0 to <6 years (N=12)	6 to <12 years (N=15)	12 to <18 years (N=5)
IR (IU/dL)/(IU/kg)	0.95 (22)	1.06 (23)	1.11 (28)
C _{max} (IU/dL)	48.3 (19)	52.9 (23)	55.3 (28)
AUC _{0-inf} (h*IU/dL)	4583 (33)	5123 (31)	5347 (48)
t _{1/2} (hours)	90 (13)	93 (21)	87 (36)
MRT (hours)	123 (14)	129 (19)	119 (31)
CL (mL/h/kg)	1.18 (28)	1.06 (29)	1.08 (39)
Vss (dL/kg)	1.42 (24)	1.32 (20)	1.16 (14)
Time to 1% Factor IX Activity (days)*	17 (29)	20 (22)	19 (37)
Time to 3% Factor IX Activity (days)*	12 (32)	14 (22)	13 (38)
Time to 5% Factor IX Activity (days)*	9 (32)	11 (26)	11 (38)

* = Estimated time to mean Factor IX activity maintained above the pre-specified percent (%)

IR = incremental recovery recorded 30 minutes after injection; AUC = area under the Factor IX activity time curve; t_{1/2} = half-life; MRT = mean residence time; CL = body weight adjusted clearance; Vss = body weight adjusted volume of distribution at steady-state.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Nonclinical studies evaluating the carcinogenic potential of IDELVION have not been conducted.

No macroscopic or microscopic pathologies in reproductive organs were observed in animals dosed every day for 28 days with 6.7 times the maximum recommended prophylactic clinical dose of 75 IU/kg IDELVION. No animal studies regarding impairment of fertility following IDELVION dosing were conducted.

14 CLINICAL STUDIES

The safety and efficacy of IDELVION were evaluated in a prospective, open-label, multicenter clinical study of 63 male PTPs with hemophilia B (≤2% endogenous Factor IX activity) who received at least one infusion of IDELVION as part of on-demand treatment and control of bleeding episodes, perioperative management of major and minor surgical, dental, or other invasive procedures, routine prophylaxis once every 7-, 10- or 14-day intervals, or pharmacokinetic evaluation. Subjects were aged 12 to 61 years; including 7 adolescent subjects aged 12 to 17. Subjects were treated for up to 27 months.

On-demand Treatment and Control of Bleeding Episodes

A total of 358 bleeding events were treated with IDELVION. Among them, 204 (57%) bleeding events were spontaneous, 140 (39%) events were traumatic and 14 (4%) events were unknown. In addition, a total of 267 (75%) episodes were joint bleeding events. Overall treatment efficacy was assessed for each bleeding episode by the investigator based on a 4-point scale of excellent, good, moderate, or poor/no response. The efficacy of IDELVION for the on-demand treatment and control of bleeding episodes is summarized in Table 7.

Table 7. Efficacy* of IDELVION for the On-demand Treatment and Control of Bleeding Episodes

Number of Bleeding Episodes Requiring Treatment (n = 358)	
Number of injections to treat bleeding episodes	
1 injection, n (%)	335 (94)
2 injections, n (%)	18 (5)
>2 injections, n (%)	5 (1.4)
Assessment of Efficacy*	
Excellent or Good, n (%)	337 (94)
Moderate, n (%)	9 (2.5)
Poor/no response, n (%)	1 (0.3)

***Excellent:** Pain relief and/or unequivocal improvement in objective signs of bleeding and no additional infusion required in order to achieve hemostasis; **Good:** Definite pain relief and/or improvement in signs of bleeding at approximately 8 hours after the first infusion, but may require a second infusion; **Moderate:** Probable or slight beneficial effect, and requires more than two infusions to achieve hemostasis; **Poor/no response:** No improvement at all or condition worsens, additional hemostatic intervention is required. Responses evaluated at approximately 24 hours after treatment.

Perioperative Management of Bleeding

In three clinical studies, 13 subjects received IDELVION for perioperative management of 15 surgical procedures. Dose was individualized based on subject's PK and clinical response to treatment. The 15 surgical procedures included a double mastectomy, four knee replacements, a hemorrhoidectomy, a rhinoplasty, a nevus excision, an ankle arthroplasty, an endoscopic mucosal resection, four complicated dental surgeries and one uncomplicated dental surgery. Two of the four dental surgeries were performed in children <12 years of age.

The efficacy analysis of IDELVION in perioperative management included 12 surgeries in 10 PTPs between 12 and 61 years of age and 3 surgical procedures in 3 children <12 years of age undergoing a major or minor surgical procedure, including dental surgeries. Hemostasis was assessed by the investigator/surgeon at wound closure (intraoperative assessment), 72 hours after surgery or at hospital discharge and at the end of the surgical substudy using a 4-point scale of: excellent, good, fair or none. Of the 15 surgeries included in the intraoperative assessment of hemostatic response, 12 surgeries were assessed as excellent (n=11) or good (n=1), and three minor surgeries were not rated. At hospital discharge or at the end of the surgical substudy, 14 surgical procedures had a rating of excellent (n=13) or good (n=1), and one surgery was not rated.

Routine Prophylaxis

Of the 63 subjects treated with IDELVION, twenty-three PTPs received IDELVION only for the treatment of bleeding episodes during the first 6 months of the study. Nineteen of these PTPs switched to once weekly prophylaxis with additional median duration of 10 months. Based on the analysis of the 19 subjects treated with IDELVION for on-demand therapy and weekly prophylaxis, the median annualized spontaneous bleeding rate (AsBR) during prophylaxis treatment was zero (range: 0 to 4.2), as compared to 15.4 (range: 2 to 39.5) during on-demand treatment. Based on the Poisson model, prophylaxis treatment with IDELVION resulted in a 96% reduction in the annualized spontaneous bleeding rate. The median annualized bleeding rate (total ABR – spontaneous and traumatic) during prophylaxis treatment was 1.6; (range: 0 to 21.1), as compared to 19.2; (range: 2 to 46.1) during on-demand treatment. Based on the Poisson model, prophylaxis treatment with IDELVION resulted in an 89% reduction in the annualized bleeding rate.

Table 8. Comparison of Annualized Bleeding Rates for Subjects Treated for On-demand Therapy and Weekly Prophylaxis

Bleeding Episode Etiology	On-demand (n=19)*	Weekly Prophylaxis (n=19)*	Percent Reduction with Prophylaxis (n=19)*
Spontaneous			
Mean (SD)	14.6 (8.42)	0.7 (1.17)	96.0 (5.54)
Median	15.4	0	100
IQR	8.0, 18.0	0, 1.0	90.5, 100
Range	2.0, 39.5	0, 4.2	82.8, 100
Total†			
Mean (SD)	20.8 (9.19)	2.9 (4.81)	88.8 (17.76)
Median	19.2	1.6	90.9
IQR	16.7, 25.8	0, 4.1	81.2, 100
Range	2.0, 46.1	0, 21.1	54.3, 100

*Based on matched pairs design

†Total includes spontaneous and traumatic bleeds

IQR=interquartile range, defined for 25th percentile and 75th percentile; SD=standard deviation; Subjects evaluable for efficacy are subjects who received at least one dose of on-demand treatment, and one dose of prophylaxis treatment.

Forty subjects received weekly routine prophylaxis. Thirty-seven subjects completed 6 months of once weekly prophylaxis. Of these, 21 subjects switched to a 14-day interval with 50-75 IU/kg of IDELVION with a median duration of 12.7 months. Prior to switching,

these 21 subjects were well controlled with IDELVION (did not require dose adjustments or experience spontaneous bleeding 1 month prior to switch and were maintained on a prophylaxis dose of ≤40 IU/kg every 7 days).

The median AsBRs for the 21 subjects treated with weekly and 14-day prophylaxis were zero (range: 0 to 4.5) and zero (range: 0 to 7.3), respectively (summarized in Table 9). In addition, the median AsBRs for the 7 subjects treated with weekly and 10-day prophylaxis were zero (range: 0 to 0) and zero (range: 0 to 0.9), respectively.

Table 9. Comparison of Annualized Spontaneous Bleeding Rate (AsBR) by Prophylaxis Regimen for Subjects in the Clinical Trial

Bleeding Episode Etiology	Weekly Prophylaxis (n=21)*	14-day Prophylaxis (n=21)*
Spontaneous		
Mean (SD)	0.28 (1.01)	1.07 (2.1)
Median	0	0
IQR	0, 0	0, 1
Range	0, 4.5	0, 7.3

*Based on a matched pairs design
IQR = interquartile range; SD = Standard deviation

15 REFERENCES

- Wilmot HV, Hogwood J, Gray E. Recombinant factor IX: discrepancies between one-stage clotting and chromogenic assays. *Haemophilia* 2014, 1-7.
- Fritsma GA, Dembitzer FR, Randhawa A, et al. Recommendations for Appropriate Activated Partial Thromboplastin Time Reagent Selection and Utilization. *Am J Clin Pathol* 2012;137:904-908.
- Sommer JM, Buyue Y, Bardan S, Peters RT, Jiang H, Kamphaus G, Gray E, Pierce GF. Comparative field study: impact of laboratory assay variability on the assessment of recombinant factor IX Fc fusion protein (rFIXFc) activity. *Thrombosis and Haemostasis* 2014, 112(5):932-40.

16 HOW SUPPLIED/STORAGE AND HANDLING

How Supplied

IDELVION is supplied as a lyophilized powder in single-use vials containing the labeled amount of Factor IX activity, expressed in international units (IU).

IDELVION is packaged with 2.5 mL (for reconstitution of 250, 500 or 1000 IU vials) or 5 mL (for reconstitution of 2000 or 3500 IU vials) of Sterile Water for Injection, USP, one Mix2Vial filter transfer set, and one sterile alcohol swab. Components are not made with natural rubber latex.

Nominal Strength (International Units)	Fill Size Color Indicator	Kit NDC
250	Orange	69911-864-02
500	Blue	69911-865-02
1000	Green	69911-866-02
2000	Purple	69911-867-02
3500	Yellow	69911-869-02

Storage and Handling

- Store IDELVION in its package to protect from light.
- Store the IDELVION package in the refrigerator or at room temperature 2-25°C (36 to 77°F). Do not freeze.
- Do not use IDELVION or the Sterilized Water for Injection diluent beyond the expiration date printed on the carton and vial labels.

17 PATIENT COUNSELING INFORMATION

- Advise patients to read the FDA-approved patient labeling (Patient Information and Instructions for Use).
- Advise patients to report any adverse reactions or problems following IDELVION administration to their healthcare provider.
- Inform patients of the early signs and symptoms of hypersensitivity or allergic reactions (including hives, generalized urticaria, chest tightness, wheezing, and hypotension). Instruct patients to discontinue use of IDELVION and contact their healthcare provider and/or seek immediate emergency care if these symptoms occur [see *Warnings and Precautions* (5.1)].
- Advise patients to contact their healthcare provider or hemophilia treatment center for further treatment and/or assessment if they experience a lack of clinical response to Factor IX replacement therapy, as in some cases this may be a manifestation of an inhibitor [see *Warnings and Precautions* (5.2)].

Manufactured by:

CSL Behring GmbH

35041 Marburg, Germany

for:

CSL Behring Recombinant Facility AG

Bern 22, Switzerland 3000

US License No. 2009

Distributed by:

CSL Behring LLC

Kankakee, IL 60901 USA

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Mix2Vial® is a registered trademark of West Pharma. Services IL, Ltd., a subsidiary of West Pharmaceutical Services, Inc.

FDA-Approved Patient Labeling
IDELVION® (eye del' vee on),

Coagulation Factor IX (Recombinant), Albumin Fusion Protein

This leaflet summarizes important information about IDELVION. Please read it carefully before using IDELVION. This information does not take the place of talking with your healthcare provider, and it does not include all of the important information about IDELVION. If you have any questions after reading this, ask your healthcare provider.

What is IDELVION?

IDELVION, Coagulation Factor IX (Recombinant), Albumin Fusion Protein is an injectable medicine used to replace clotting factor (Factor IX) that is missing in people with hemophilia B (also called congenital Factor IX deficiency or Christmas disease). Hemophilia B is an inherited bleeding disorder that prevents blood from clotting normally. IDELVION is used in children and adults with hemophilia B to control and prevent bleeding episodes. Your healthcare provider may give you IDELVION when you have surgery. IDELVION can reduce the number of bleeding episodes when used regularly (prophylaxis).

Who should not use IDELVION?

You should not use IDELVION if you:

- have had life-threatening hypersensitivity reactions to IDELVION
- are allergic to hamster proteins
- are allergic to any ingredients in IDELVION

Tell your healthcare provider if you have had an allergic reaction to any Factor IX product prior to using IDELVION.

Tell your healthcare provider if you are pregnant or breast-feeding because IDELVION may not be right for you.

What should I tell my healthcare provider before using IDELVION?

You should tell your healthcare provider if you:

- have or had any medical problems
- take any medicines, including prescription and non-prescription medicines, such as over-the-counter medicines, supplements, or herbal remedies
- have any allergies, including allergies to hamster proteins
- are breastfeeding. It is not known if IDELVION passes into your milk and if it can harm your baby.
- are pregnant or planning to become pregnant. It is not known if IDELVION may harm your unborn baby.
- have been told that you have inhibitors to Factor IX (because IDELVION may not work for you).

How should I administer IDELVION?

- IDELVION is given directly into the bloodstream.
- IDELVION should be administered as ordered by your healthcare provider.
- You should be trained on how to do injections by your healthcare provider or hemophilia treatment center. Many people with hemophilia B learn to inject IDELVION by themselves or with the help of a family member. See the step-by-step guide (Instructions for Use) provided at the end of this leaflet for directions on mixing and infusing IDELVION.
- Your healthcare provider will tell you how much IDELVION to use based on your weight, the severity of your hemophilia B, and where you are bleeding.
- You may need to have blood tests done after getting IDELVION to be sure that your blood level of Factor IX is high enough to clot your blood.
- Call your healthcare provider right away if your bleeding does not stop after taking IDELVION.

What are the possible side effects of IDELVION?

Allergic reactions may occur with IDELVION. Call your healthcare provider right away and stop treatment if you get a rash or hives, itching, tightness of the chest or throat, difficulty breathing, light-headedness, dizziness, nausea, or decrease in blood pressure.

Your body can make antibodies, called inhibitors, against Factor IX, which may stop IDELVION from working properly. Your healthcare provider may need to test your blood for inhibitors from time to time.

IDELVION may increase the risk of forming abnormal blood clots in your body, especially if you have risk factors for developing blood clots. Call your healthcare provider if you have chest pain, difficulty breathing, leg tenderness or swelling.

A common side effect of IDELVION is headache.

This is not the only side effect possible with IDELVION. To learn more, talk to your healthcare provider or pharmacist. Tell your healthcare provider about any side effect that bothers you or does not go away.

What are the IDELVION dosage strengths?

IDELVION comes in five different dosage strengths: 250, 500, 1000, 2000, or 3500 IU. The actual strength of IDELVION is printed on the carton and vial label. The labeling of the five dosage strengths are color-coded as follows:

Fill Size Color Indicator	Nominal Strength
Orange	250 IU
Blue	500 IU
Green	1000 IU
Purple	2000 IU
Yellow	3500 IU

Always check the actual dosage strength printed on the label to make sure you are using the strength prescribed by your healthcare provider.

How should I store IDELVION?

- Store vial in original carton to protect from light.
- Store at 2-25°C (36-77°F). Do not freeze.
- Do not use IDELVION after the expiration date printed on the label.
- The reconstituted product (after mixing dry product with diluent) must be used within 4 hours and cannot be stored or refrigerated. Discard any IDELVION left in the vial at the end of your infusion.

What else should I know about IDELVION?

- Do not use IDELVION for a condition for which it is not prescribed.
- Do not share IDELVION with other people, even if they have the same symptoms that you have.

Instructions for Use

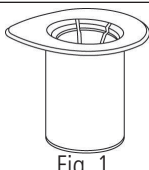
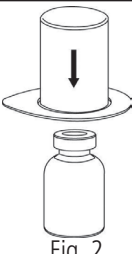

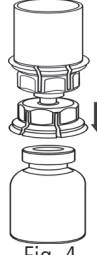


For intravenous use after reconstitution only.



Do not attempt to do an intravenous injection unless you have been taught how by your healthcare provider or hemophilia center.

Always follow the specific instructions given by your healthcare provider. The steps listed below are general guidelines for using IDELVION. If you are unsure of the instructions, call your healthcare provider before using IDELVION. Call your healthcare provider right away if bleeding is not controlled after using IDELVION. Your healthcare provider will prescribe the dose that you should take. You may need to have blood tests from time to time. Talk to your healthcare provider before traveling. Dispose of all unused solution, empty vial(s), and other used medical supplies in an appropriate medical waste container.

- Always work on a clean, flat surface and wash your hands before performing the mixing (reconstitution) procedures.
- Mix (reconstitute) IDELVION using the diluent (Sterile Water for Injection) and transfer device (Mix2Vial) provided in the kit.
- To give an injection, you will also need a syringe and suitable needle (not provided).
- If a package is opened or damaged, do not use and contact your healthcare provider.
- Do not use IDELVION beyond the expiration date on the vial label and carton.
- Look at the mixed (reconstituted) solution. Do not use IDELVION if the reconstituted solution is cloudy, contains any particles, or is discolored.
- IDELVION is for single use only. Contains no preservatives. Discard partially used vials.
- Ensure the vials of IDELVION and the Sterile Water for Injection are at room temperature before mixing.
- Follow the reconstitution instructions as described in Table 1.

Table 1. IDELVION Reconstitution Instructions

1. Place the IDELVION vial, diluent vial, and Mix2Vial® transfer set on a flat surface.	
2. Remove flip caps from the IDELVION and Sterile Water for Injection (diluent) vials.	
3. Wipe the stoppers with the sterile alcohol swab provided and allow to dry prior to opening the Mix2Vial transfer set package.	
4. Open the Mix2Vial transfer set package by peeling away the lid (Fig. 1). Do not remove the device from the package.	 Fig. 1
5. Place the diluent vial on a flat surface and hold the vial tightly. Grip the Mix2Vial transfer set together with the clear package and push the plastic spike at the blue end of the Mix2Vial transfer set firmly through the center of the stopper of the diluent vial (Fig. 2).	 Fig. 2
6. Carefully remove the clear package from the Mix2Vial transfer set. Do not remove the Mix2Vial transfer set or touch the exposed end of the device (Fig. 3).	 Fig. 3
7. With the IDELVION vial placed firmly on a flat surface, invert the diluent vial with the Mix2Vial transfer set attached and push the plastic spike of the transparent adapter firmly through the center of the stopper of the IDELVION vial (Fig. 4). The diluent will automatically transfer into the IDELVION vial.	 Fig. 4
8. With the diluent and IDELVION vial still attached to the Mix2Vial transfer set, gently swirl the IDELVION vial to ensure that the powder is fully dissolved (Fig. 5). Do not shake the vial.	 Fig. 5
9. With one hand, grasp the IDELVION side of the Mix2Vial transfer set and with the other hand grasp the blue diluent-side of the Mix2Vial transfer set, and unscrew the set into two pieces (Fig. 6).	 Fig. 6
10. Draw air into an empty, sterile syringe. While the IDELVION vial is upright, screw the syringe to the Mix2Vial transfer set. Inject air into the IDELVION vial.	

11. While keeping the syringe plunger pressed, invert the system upside down and draw the concentrate into the syringe by pulling the plunger back slowly (Fig. 7).	 Fig. 7
12. Disconnect the filled syringe by unscrewing it from the Mix2Vial transfer set (Fig. 8). The reconstituted solution should be a clear or yellow to colorless solution. Do not use if particulate matter or discoloration is observed.	 Fig. 8
13. Use immediately or within 4 hours of reconstitution. Keep solution at room temperature. Do not refrigerate after reconstitution.	
14. If the dose requires more than one vial, use a separate, unused Mix2Vial transfer set and Sterile Water for Injection (diluent) vial for each product vial. Repeat steps 10-12 to pool the contents of the vials into one syringe.	
15. Record treatment – Remove the peel-off portion of the label from each vial used and affix it to the patient's treatment diary/log book.	

Administration (intravenous injection)

- Do not mix IDELVION in the same tubing or container with other medicinal products.
- Attach the syringe containing the reconstituted IDELVION solution to a sterile infusion set and give an injection as directed by your healthcare provider or hemophilia treatment center.
- Administer intravenously. Do not exceed infusion rate 10 mL per minute.

Resources at CSL Behring available to the patient:

For Adverse Reaction Reporting contact:

CSL Behring Pharmacovigilance Department at 1-866-915-6958

Contact CSL Behring to receive more product information:

Reimbursement Services 1-800-676-4266

For more information, visit www.IDELVION.com

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