

## Package leaflet: Information for the user

### Epysqli™ 300 mg concentrate for solution for infusion eculizumab

▼ This medicine is subject to additional monitoring. This will allow quick identification of new safety information. You can help by reporting any side effects you may get. See the end of section 4 for how to report side effects.

#### **Read all of this leaflet carefully before you start using this medicine because it contains important information for you.**

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, pharmacist or nurse.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

#### **What is in this leaflet**

1. What Epysqli is and what it is used for
2. What you need to know before you use Epysqli
3. How to use Epysqli
4. Possible side effects
5. How to store Epysqli
6. Contents of the pack and other information

#### **1. What Epysqli is and what it is used for**

##### **What is Epysqli**

Epysqli contains the active substance eculizumab and it belongs to a class of medicines called monoclonal antibodies. Eculizumab binds to and inhibits a specific protein in the body that causes inflammation and so prevents your body's systems from attacking and destroying vulnerable blood cells, kidneys, muscles or eye nerves and spinal cord.

##### **What is Epysqli used for**

###### **Paroxysmal Nocturnal Haemoglobinuria**

Epysqli is used to treat adults and children patients with a certain type of disease affecting the blood system called Paroxysmal Nocturnal Haemoglobinuria (PNH). In patients with PNH, their red blood cells can be destroyed which can lead to low blood counts (anaemia), tiredness, difficulty in functioning, pain, dark urine, shortness of breath, and blood clots. Eculizumab can block the body's inflammatory response, and its ability to attack and destroy its own vulnerable PNH blood cells.

###### **Atypical Haemolytic Uremic Syndrome**

Epysqli is also used to treat adults and children patients with a certain type of disease affecting the blood system and kidney called atypical Haemolytic Uremic Syndrome (aHUS). In patients with aHUS, their kidney and blood cells, including platelets, can be inflamed which can lead to low blood counts (thrombocytopenia and anaemia), reduced or lost kidney function, blood clots, tiredness and difficulty in functioning. Eculizumab can block the body's inflammatory response, and its ability to attack and destroy its own vulnerable blood and kidney cells.

#### **2. What you need to know before you use Epysqli**

### **Do not use Epysqli**

- If you are allergic to eculizumab, proteins derived from mouse products, other monoclonal antibodies, or any of the other ingredients of this medicine (listed in section 6).
- If you have not been vaccinated against meningococcal infection unless you take antibiotics to reduce the risk of infection until 2 weeks after you have been vaccinated .
- If you have a meningococcal infection.

### **Warnings and precautions**

#### **Meningococcal and other *Neisseria* infections alert**

Epysqli treatment may reduce your natural resistance to infections, especially against certain organisms that cause meningococcal infection (severe infection of the linings of the brain and sepsis) and other *Neisseria* infections including disseminated gonorrhoea.

Consult your doctor before you take Epysqli to be sure that you receive vaccination against *Neisseria meningitidis*, an organism that causes meningococcal infection, at least 2 weeks before beginning therapy, or that you take antibiotics to reduce the risk of infection until 2 weeks after you have been vaccinated. Ensure that your current meningococcal vaccination is up to date. You should also be aware that vaccination may not prevent this type of infection. In accordance with national recommendations, your doctor might consider that you need supplementary measures to prevent infection.

If you are at risk of gonorrhoea, ask your doctor or pharmacist for advice before using this medicine.

#### Meningococcal infection symptoms

Because of the importance of rapidly identifying and treating certain types of infection in patients who receive Epysqli, you will be provided a card to carry with you, listing specific trigger symptoms. This card is named: "Patient Safety Card".

If you experience any of the following symptoms, you should immediately inform your doctor:

- headache with nausea or vomiting
- headache with a stiff neck or back
- fever
- rash
- confusion
- severe muscle aches combined with flu-like symptoms
- sensitivity to light

#### Treatment for meningococcal infection while travelling

If you are travelling in a remote region where you are unable to contact your doctor or in which you find yourself temporarily unable to receive medical treatment, your doctor can make arrangements to issue, as a preventive measure, a prescription for an antibiotic to counter *Neisseria meningitidis* that you keep with you. If you experience any of the symptoms amongst those cited above, you should take the antibiotics as prescribed. You should bear in mind that you should see a doctor as soon as possible, even if you feel better after having taken the antibiotics.

### **Infections**

Before starting Epysqli, inform your doctor if you have any infections.

### **Allergic reactions**

Epysqli contains a protein and proteins can cause allergic reactions in some people.

### **Children and adolescents**

Patients less than 18 years of age must be vaccinated against *Haemophilus influenzae* and pneumococcal infections

### **Elderly**

There are no special precautions needed for the treatment of patients aged from 65 years and over.

### **Other medicines and Epysqli**

Tell your doctor or pharmacist if you are using or have recently used or might use any other medicines.

### **Pregnancy, breast-feeding, and fertility**

If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before using this medicine.

#### *Women of childbearing potential*

The use of effective contraception during treatment and up to 5 months after treatment should be considered in women who are able to get pregnant.

#### *Pregnancy/ Breast-feeding*

If you are pregnant or breast-feeding, think you may be pregnant or are planning to have a baby, ask your doctor or pharmacist for advice before using this medicine.

### **Driving and using machines**

Epysqli has no or negligible influence on the ability to drive and use machines.

### **Epysqli contains sodium**

Once diluted with sodium chloride 9 mg/mL (0.9 %) solution for injection, this medicine contains 0.47 g sodium (main component of cooking/table salt) in 240 mL at the maximal dose. This is equivalent to 23.4 % of the recommended maximum daily dietary intake of sodium for an adult. You should take this into consideration if you are on a controlled sodium diet.

Once diluted with sodium chloride 4.5 mg/mL (0.45 %) solution for injection, this medicine contains 0.26 g sodium (main component of cooking/table salt) in 240 mL at the maximal dose. This is equivalent to 12.8 % of the recommended maximum daily dietary intake of sodium for an adult. You should take this into consideration if you are on a controlled sodium diet.

## **3. How to use Epysqli**

At least 2 weeks before you start treatment with Epysqli, your doctor will administer a vaccine against meningococcal infection if it was not previously administered or if your vaccination is outdated. If your child is below the age of vaccination or if you are not vaccinated at least 2 weeks before you start treatment with Epysqli, your doctor will prescribe antibiotics to reduce the risk of infection until 2 weeks after you have been vaccinated.

Your doctor will administer a vaccine to your child aged less than 18 years against *Haemophilus influenzae* and pneumococcal infections according to the national vaccination recommendations for each age group.

### **Instructions for proper use**

The treatment will be given by your doctor or other health care provider by infusing a dilution of the Epysqli vial from a drip bag through a tube directly into one of your veins. It is recommended that the beginning of your treatments, called the initial phase, will extend over 4 weeks, followed by a maintenance phase.

#### If you use this medicine to treat PNH

For adults:

- **Initial Phase:**

Every week for the first four weeks, your doctor will administer an intravenous infusion of diluted Epysqli. Each infusion will consist of a dose of 600 mg (2 vials of 30 ml) and will take 25 – 45 minutes (35 minutes  $\pm$  10 minutes).

- Maintenance Phase:
  - In the fifth week, your doctor will administer an intravenous infusion of diluted Epysqli at a dose of 900 mg (3 vials of 30 ml) over a 25 – 45 minute (35 minutes ± 10 minutes) period.
  - After the fifth week, your doctor will administer 900 mg of diluted Epysqli every two weeks as a long-term treatment.

If you use this medicine to treat aHUS

For adults:

- Initial Phase:  
Every week for the first four weeks, your doctor will administer an intravenous infusion of diluted Epysqli. Each infusion will consist of a dose of 900 mg (3 vials of 30 ml) and will take 25 – 45 minutes (35 minutes ± 10 minutes).
- Maintenance Phase:
  - In the fifth week, your doctor will administer an intravenous infusion of diluted Epysqli at a dose of 1,200 mg (4 vials of 30 ml) over a 25 – 45 minute (35 minutes ± 10 minutes) period.
  - After the fifth week, your doctor will administer 1,200 mg of diluted Epysqli every two weeks as a long-term treatment.

For children and adolescents

Children and adolescents with PNH or aHUS who are 40 kg weight and over are treated with the adult dosing.

Children and adolescents with PNH or aHUS who are under 40 kg weight require a lower dose based on how much they weigh. Your doctor will calculate this.

For children and adolescents with PNH and aHUS aged less than 18 years:

<b>Body Weight</b>	<b>Initial Phase</b>	<b>Maintenance Phase</b>
30 to < 40 kg	600 mg weekly for the first 2 weeks	900 mg at week 3; then 900 mg every 2 weeks
20 to < 30 kg	600 mg weekly for the first 2 weeks	600 mg at week 3; then 600 mg every 2 weeks
10 to < 20 kg	600 mg weekly single dose at week 1	300 mg at week 2; then 300 mg every 2 weeks
5 to < 10 kg	300 mg weekly single dose at week 1	300 mg at week 2; then 300 mg every 3 weeks

Subjects who undergo plasma exchange may receive additional doses of Epysqli.

Following each infusion, you will be monitored for about one hour. Your doctor’s instructions should be carefully observed.

**If you receive more Epysqli than you should**

If you suspect that you have been accidentally administered a higher dose of Epysqli than prescribed, please contact your doctor for advice.

**If you forget an appointment to receive Epysqli**

If you forget an appointment, please contact your doctor immediately for advice and see section below “If you stop using Epysqli”.

### **If you stop using Epysqli for PNH**

Interrupting or ending treatment with Epysqli may cause your PNH symptoms to come back more severely soon. Your doctor will discuss the possible side effects with you and explain the risks. Your doctor will want to monitor you closely for at least 8 weeks.

The risks of stopping Epysqli include an increase in the destruction of your red blood cells, which may cause:

- A significant fall in your red blood cell counts (anaemia),
- Confusion or change in how alert you are,
- Chest pain, or angina,
- An increase in your serum creatinine level (problems with your kidneys), or
- Thrombosis (blood clotting).

If you have any of these symptoms, contact your doctor.

### **If you stop using Epysqli for aHUS**

Interrupting or ending treatment with Epysqli may cause your aHUS symptoms to come back. Your doctor will discuss the possible side effects with you and explain the risks. Your doctor will want to monitor you closely.

The risks of stopping Epysqli include an increase in the inflammation of your platelets, which may cause:

- A significant fall in your platelets (thrombocytopenia),
- A significant rise in destruction of your red blood cells,
- Decreased urination (problems with your kidneys),
- An increase in your serum creatinine level (problems with your kidneys),
- Confusion or change in how alert you are,
- Chest pain, or angina,
- Shortness of breath, or
- Thrombosis (blood clotting).

If you have any of these symptoms, contact your doctor.

## **4. Possible side effects**

Like all medicines, this medicine can cause side effects, although not everybody gets them. Your doctor will discuss the possible side effects with you and explain the risks and benefits of Epysqli with you prior to treatment.

The most serious side effect was meningococcal sepsis (frequency not known (cannot be estimated from the available data).

If you experience any of the meningococcal infection symptoms (see section 2 “Meningococcal and other *Neisseria infections* alert”), you should immediately inform your doctor.

If you are not sure what the side effects below are, ask your doctor to explain them to you.

**Very common:** may affect more than 1 in 10 people:

- headache.

**Common:** may affect up to 1 in 10 people:

- infection of the lung (pneumonia), common cold (nasopharyngitis), infection of the urinary system (urinary tract infection),
- low white blood cell count (leukopenia), reduction in red blood cells which can make the skin pale and cause weakness or breathlessness
- inability to sleep
- dizziness, high blood pressure
- upper respiratory tract infection, cough, throat pain (oropharyngeal pain), bronchitis, cold sores

(herpes simplex)

- diarrhoea, vomiting, nausea, abdominal pain, rash, hair loss (alopecia), itchy skin (pruritus)
- pain in the joints (arms and legs), pain in the limbs (arms and legs)
- fever (pyrexia), feeling tired (fatigue), influenza like illness
- infusion related reaction

**Uncommon:** may affect up to 1 in 100 people:

- severe infection (meningococcal infection), sepsis, septic shock, viral infection, lower respiratory tract infection, stomach flu (gastrointestinal infection), cystitis
- infection, fungal infection, collection of pus (abscess), type of infection of the skin (cellulitis), influenza, sinusitis, tooth infection (abscess), gum infection
- relatively few platelets in blood (thrombocytopenia), low level of lymphocytes a specific type of white blood cells (lymphopenia), feeling your heartbeat
- serious allergic reaction which causes difficulty in breathing or dizziness (anaphylactic reaction), hypersensitivity
- loss of appetite
- depression, anxiety, mood swings, sleep disorder
- tingling in part of the body (paresthesia), shaking, taste disorders (dysgeusia), fainting
- vision blurred
- ringing in the ears, vertigo
- sudden and rapid development of extremely high blood pressure, low blood pressure, hot flush, vein disorder
- dyspnoea (difficulty breathing), nose bleed, stuffy nose (nasal congestion), throat irritation, runny nose (rhinorrhoea)
- inflammation of the peritoneum (the tissue that lines most of the organs of the abdomen), constipation, stomach discomfort after meals (dyspepsia), abdominal distension
- hives, redness of the skin, dry skin, red or purple spots under the skin, increased sweating, inflammation of the skin
- muscle cramp, muscle aches, back and neck pain, bone pain
- kidney disorder, difficulties or pain when urinating (dysuria), blood in urine
- spontaneous penile erection
- swelling (edema), chest discomfort, feeling of weakness (asthenia), chest pain, infusion site pain, chills
- increase of liver enzymes, decrease of the proportion of blood volume that is occupied by red blood cells, decrease in the protein in red blood cells that carries oxygen

**Rare:** may affect up to 1 in 1 000 people:

- infection by fungi (Aspergillus infection), infection of the joint (arthritis bacterial), Haemophilus influenzae infection, impetigo, bacterial sexual transmitted disease (gonorrhoea)
- skin tumor (melanoma), bone marrow disorder
- destruction of red blood cells (haemolysis), clumping of cells, abnormal clotting factor, abnormal blood clotting,
- disease with thyroid overactivity (Basedow's disease)
- abnormal dreams
- irritation of eye
- bruise
- unusual backflow of food from stomach, gum pain
- yellowing of the skin and/or eyes (jaundice)
- skin colour disorder
- spasm of mouth muscle, joint swelling
- menstrual disorder
- abnormal leakage of the infused medicine out of the vein, infusion site abnormal sensation, feeling hot

## Reporting of side effects

If you get any side effects, talk to your doctor or pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the Yellow Card Scheme at: [www.mhra.gov.uk/yellowcard](http://www.mhra.gov.uk/yellowcard) or search for MHRA Yellow Card in the Google Play or Apple App Store.

By reporting side effects you can help provide more information on the safety of this medicine.

## 5. How to store Epysqli

Keep this medicine out of the sight and reach of children.

Do not use this medicine after the expiry date which is stated on the carton and the vial label after “EXP”. The expiry date refers to the last day of that month.

Store in a refrigerator (2 °C – 8 °C).

Do not freeze.

Epysqli vials in the original package may be removed from refrigerated storage **for only one single period of up to 2 months at room temperature (up to 30 °C)**, but not beyond the original expiry date. At the end of this period the product can be put back in the refrigerator.

Store in the original package in order to protect from light.

After dilution, the product should be used within 24 hours at 2 °C – 8 °C or at room temperature (up to 30 °C). However, if the solution is prepared in aseptic (germ-free) conditions, it can be stored in the refrigerator at 2 °C to 8 °C up to 3 months and for an additional 72 hours at room temperature (up to 30 °C) when diluted with sodium chloride 9 mg/ml (0.9 %) solution for injection, sodium chloride 4.5 mg/ml (0.45 %) solution for injection.

Do not throw away any medicines via wastewater. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

## 6. Contents of the pack and other information

### What Epysqli contains

- The active substance is eculizumab (300 mg/30 ml in a vial corresponding to 10 mg/ml).
- The other ingredients are:
  - sodium dihydrogen phosphate monohydrate (see section 2 “Epysqli contains sodium”)
  - disodium hydrogen phosphate heptahydrate (see section 2 “Epysqli contains sodium”)
  - trehalose dihydrate
  - polysorbate 80

Solvent: Water for injections

### What Epysqli looks like and contents of the pack

Epysqli is presented as a concentrate for solution for infusion (30 ml in a vial – pack size of 1 vial). Epysqli is a clear and colourless solution.

### Marketing Authorisation Holder

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**Instructions for Use for Healthcare Professionals  
Handling Epysqli™**

The following information is intended for medical or healthcare professionals only:

**1- How is Epysqli supplied?**

Each vial of Epysqli contains 300 mg of active substance in 30 ml of product solution.

**2- Before Administration**

Reconstitution and dilution should be performed in accordance with good practices rules, particularly for the respect of asepsis.

Epysqli should be prepared for administration by a qualified healthcare professional using aseptic technique.

- Inspect visually Epysqli solution for particulate matter and discolouration.
- Withdraw the required amount of Epysqli from the vial(s) using a sterile syringe.
- Transfer the recommended dose to an infusion bag.
- Dilute Epysqli to a final concentration of 5 mg/ml (initial concentration divided by 2) by adding the appropriate amount of diluent to the infusion bag. For 300 mg doses, use 30 ml of Epysqli (10 mg/ml) and add 30 ml of diluent. For 600 mg doses, use 60 ml of Epysqli and add 60 ml of diluent. For 900 mg doses, use 90 ml of Epysqli and add 90 ml of diluent. For 1,200 mg doses, use 120 ml of Epysqli and add 120 ml of diluent. The final volume of a 5 mg/ml diluted Epysqli solution is 60 ml for 300 mg doses, 120 ml for 600 mg doses, 180 ml for 900 mg doses or 240 ml for 1,200 mg doses.
- Diluents are sodium chloride 9 mg/ml (0.9 %) solution for injection, sodium chloride 4.5 mg/ml (0.45 %) solution for injection or 5 % glucose in water.
- Gently agitate the infusion bag containing the diluted Epysqli solution to ensure thorough mixing of the medicinal product and diluent.
- The diluted solution should be allowed to warm to room temperature (up to 30 °C) prior to administration by exposure to ambient air.
- The diluted solution must not be heated in a microwave or with any heat source other than the prevailing room temperature.
- Discard any unused portion left in a vial.
- Diluted solution of Epysqli may be stored at 2 °C – 8 °C or at room temperature (up to 30 °C) for 24 hours after removal from refrigeration. However, if the solution is prepared in aseptic (germ-free) conditions, it can be stored in the refrigerator at 2 °C to 8 °C up to 3 months and for an additional 72 hours at room temperature (up to 30 °C) when diluted with sodium chloride 9 mg/ml (0.9 %) solution for injection, sodium chloride 4.5 mg/ml (0.45 %) solution for injection.

**3- Administration**

- Do not administer Epysqli as an intravenous push or bolus injection.
- Epysqli should only be administered via intravenous infusion.
- The diluted solution of Epysqli should be administered by intravenous infusion over 25 to 45 minutes (35 minutes ± 10 minutes) in adults and 1-4 hours in paediatric patients under 18 years of

age via gravity feed, a syringe-type pump, or an infusion pump. It is not necessary to protect the diluted solution of Epysqli from light during administration to the patient.

The patient should be monitored for one hour following infusion. If an adverse event occurs during the administration of Epysqli, the infusion may be slowed or stopped at the discretion of the physician. If the infusion is slowed, the total infusion time may not exceed two hours in adults and four hours in paediatric patients under 18 years of age.

#### **4- Special Handling and Storage**

Store in a refrigerator (2 °C – 8 °C). Do not freeze. Store in the original package in order to protect from light. Epysqli vials in the original package may be removed from refrigerated storage for only one single period of up to 2 months at room temperature (up to 30 °C), but not exceeding the original expiry date. At the end of this period the product can be put back in the refrigerator.

Do not use this medicine after the expiry date which is stated on the carton and vial label after 'EXP'. The expiry date refers to the last day of that month.