

## SUMMARY OF PRODUCT CHARACTERISTICS

### 1 NAME OF THE MEDICINAL PRODUCT

Icatibant 30 mg solution for injection in pre-filled syringe

### 2 QUALITATIVE AND QUANTITATIVE COMPOSITION

Each pre-filled syringe of 3 ml contains icatibant acetate equivalent to 30 mg icatibant. Each ml of the solution contains 10 mg of icatibant.

For the full list of excipients, see section 6.1.

### 3 PHARMACEUTICAL FORM

Solution for injection in pre-filled syringe.

The solution is a clear and colourless liquid

### 4 CLINICAL PARTICULARS

#### 4.1 Therapeutic indications

Icatibant is indicated for symptomatic treatment of acute attacks of hereditary angioedema (HAE) in adults, adolescents and children aged 2 years and older, with C1-esterase-inhibitor deficiency.

#### 4.2 Posology and method of administration

Icatibant is intended for use under the guidance of a healthcare professional.

##### Posology

##### *Adults*

The recommended dose for adults is a single subcutaneous injection of Icatibant 30 mg.

In the majority of cases a single injection of Icatibant is sufficient to treat an attack. In case of insufficient relief or recurrence of symptoms, a second injection of Icatibant can be administered after 6 hours. If the second injection produces insufficient relief or a recurrence of symptoms is observed, a third injection of Icatibant can be administered after a further 6 hours. No more than 3 injections of Icatibant should be administered in a 24 hour period.

In the clinical trials, not more than 8 injections of Icatibant per month have been administered.

##### *Paediatric population*

The recommended dose of Icatibant based on body weight in children and adolescents (aged 2 to 17 years) is provided in table 1 below.

**Table 1: Dosage regimen for paediatric patients**

<b>Body Weight</b>	<b>Dose (Injection Volume)</b>
12 kg to 25 kg	10 mg (1.0 ml)
26 kg to 40 kg	15 mg (1.5 ml)
41 kg to 50 kg	20 mg (2.0 ml)
51 kg to 65 kg	25 mg (2.5 ml)
>65 kg	30 mg (3.0 ml)

In the clinical trial, not more than 1 injection of Icatibant per HAE attack has been administered.

No dosage regimen for children aged less than 2 years or weighing less than 12 kg can be recommended as the safety and efficacy in this paediatric group has not been established.

#### *Elderly*

Limited information is available on patients older than 65 years of age. Elderly people have been shown to have increased systemic exposure to icatibant. The relevance of this to the safety of Icatibant is unknown (see section 5.2).

#### *Hepatic impairment*

No dose adjustment is required in patients with hepatic impairment.

#### *Renal impairment*

No dose adjustment is required in patients with renal impairment.

#### Method of administration

Icatibant is intended for subcutaneous administration preferably in the abdominal area.

Icatibant solution for injection should be injected slowly due to the volume to be administered.

Each Icatibant syringe is intended for single use only.

Refer to the patient information leaflet for instructions for use.

#### *Caregiver/self-administration*

The decision on initiating caregiver or self-administration of Icatibant should only be taken by a physician experienced in the diagnosis and treatment of hereditary angioedema (see section 4.4).

#### *Adults*

Icatibant may be self-administered or administered by a caregiver only after training in subcutaneous injection technique by a healthcare professional.

#### *Children and adolescents aged 2-17 years*

Icatibant may be administered by a caregiver only after training in subcutaneous injection technique by a healthcare professional.

### **4.3 Contraindications**

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

#### **4.4 Special warnings and precautions for use**

##### Laryngeal attacks

Patients with laryngeal attacks should be managed in an appropriate medical institution after injection until the physician considers discharge to be safe.

##### Ischemic heart disease

Under ischemic conditions, a deterioration of cardiac function and a decrease in coronary blood flow could theoretically arise from antagonism of bradykinin receptor type 2. Caution should therefore be observed in the administration of Icatibant to patients with acute ischemic heart disease or unstable angina pectoris (see section 5.3).

##### Stroke

Although there is evidence to support a beneficial effect of B2 receptor blockade immediately following a stroke, there is a theoretical possibility that icatibant may attenuate the positive late phase neuroprotective effects of bradykinin. Accordingly, caution should be observed in the administration of icatibant to patients in the weeks following a stroke.

##### Caregiver/self-administration

For patients who have never received Icatibant previously, the first treatment should be given in a medical institution or under the guidance of a physician. In case of insufficient relief or recurrence of symptoms after self-treatment or administration by a caregiver, it is recommended that the patient or caregiver should seek medical advice. For adults, subsequent doses that may be required for the same attack should be administered within a medical institution (see section 4.2). There are no data on administering subsequent doses for the same attack in adolescents or children.

Patients experiencing a laryngeal attack should always seek medical advice and be observed in a medical institution also after having taken the injection at home.

##### Paediatric population

There is limited experience with treatment of more than one HAE attack with Icatibant in the paediatric population.

##### Sodium

This medicine contains less than 1 mmol sodium (23 mg) per injection, that is to say essentially 'sodium-free'.

#### **4.5 Interaction with other medicinal products and other forms of interaction**

Pharmacokinetic drug interactions involving CYP450 are not expected (see section 5.2).

Co-administration of Icatibant with angiotensin-converting-enzyme (ACE) inhibitors has not been studied. ACE inhibitors are contraindicated in HAE patients due to possible enhancement of bradykinin levels.

#### **4.6 Fertility, Pregnancy and lactation**

##### Pregnancy

For icatibant, no clinical data on exposed pregnancies are available. Animal studies showed effects on uterine implantation and parturition (see section 5.3), but the potential risk for humans is unknown.

Icatibant should be used during pregnancy only, if the potential benefit justifies the potential risk for the foetus, (e.g for treatment of potentially life threatening laryngeal attacks).

#### Breast-feeding

Icatibant is excreted in the milk of lactating rats at concentrations similar to those in maternal blood. No effects were detected in the post-natal development of rat pups.

It is unknown whether icatibant is excreted in human breast milk but it is recommended that breastfeeding women, who wish to take Icatibant, should not breastfeed for 12 hours after treatment.

#### Fertility

In both rats and dogs, repeated use of icatibant resulted in effects on reproductive organs. Icatibant had no effect on the fertility of male mice and rats (see section 5.3). In a study of 39 healthy adult men and women treated with 30 mg every 6 hours for 3 doses every 3 days for a total of 9 doses, there were no clinically significant changes from baseline in basal and GnRH-stimulated concentration of reproductive hormones in either females or males. There were no significant effects of icatibant on the concentration of luteal phase progesterone and luteal function, or on menstrual cycle length in females and there were no significant effects of icatibant on sperm count, motility and morphology in males. The dosing regimen used for this study is unlikely to be sustained in the clinical setting.

### **4.7 Effects on ability to drive and use machines**

Icatibant has minor influence on the ability to drive and use machines. Fatigue, lethargy, tiredness, somnolence, and dizziness have been reported following the use of Icatibant. These symptoms may occur as a result of an attack of HAE. Patients should be advised not to drive and use machines if they feel tired or dizzy.

### **4.8 Undesirable effects**

#### Summary of the safety profile

In clinical studies used for registration, a total of 999 HAE attacks have been treated with 30 mg Icatibant administered subcutaneously by a healthcare professional. Icatibant 30 mg SC has been administered by a healthcare professional to 129 healthy subjects and 236 patients with HAE.

Almost all subjects who were treated with subcutaneous icatibant in clinical trials developed reactions at the site of injection (characterised by skin irritation, swelling, pain, itchiness, erythema, burning sensation). These reactions were generally mild to moderate in severity, transient, and resolved without further intervention.

### Tabulated list of adverse reactions

The frequency of adverse reactions listed in Table 1 is defined using the following convention:

Very common ( $\geq 1/10$ ); common ( $\geq 1/100$  to  $< 1/10$ ); uncommon ( $\geq 1/1,000$  to  $< 1/100$ ); rare ( $\geq 1/10,000$  to  $< 1/1,000$ ); very rare ( $< 1/10,000$ ).

All adverse reactions from post-marketing experience are *italicised*.

**Table 2: Adverse reactions reported with icatibant**

System Organ Class (incidence category)	Preferred Term
Nervous system disorders (Common, $\geq 1/100$ to $< 1/10$ )	Dizziness Headache
Gastrointestinal disorders (Common, $\geq 1/100$ to $< 1/10$ )	Nausea
Skin and subcutaneous tissue disorders (Common, $\geq 1/100$ to $< 1/10$ )	Rash Erythema Pruritus
<i>(Unknown)</i>	<i>Urticaria</i>
General disorders and administration site conditions (Very Common, $\geq 1/10$ )	Injection site reactions*
(Common, $\geq 1/100$ to $< 1/10$ )	Pyrexia
Investigations (Common, $\geq 1/100$ to $< 1/10$ )	Transaminases increased

\* Injection site bruising, Injection site hematoma, Injection site burning, Injection site erythema, Injection site hypoesthesia, Injection site irritation, Injection site numbness, Injection site edema, Injection site pain, Injection site pressure sensation, Injection site pruritus, Injection site swelling, Injection site urticaria, and Injection site warmth.

### Paediatric Population

A total of 32 paediatric patients (8 children aged 2 to 11 years and 24 adolescents aged 12 to 17 years) with HAE were exposed to treatment with icatibant during clinical studies. Thirty-one patients received a single dose of icatibant and 1 patient (an adolescent) received icatibant for two HAE attacks (in total, two doses). Icatibant was administered by subcutaneous injection at a dose of 0.4 mg/kg based on body weight to a maximum dose of 30 mg.

The majority of paediatric patients who were treated with subcutaneous Icatibant experienced injection site reactions such as erythema, swelling, burning sensation, skin pain and itching/pruritus; these were found to be mild to moderate in severity and consistent with reactions that have been reported in adults. Two paediatric patients experienced injection site reactions which were assessed as severe and which were completely resolved within 6 hours. These reactions were erythema, swelling, burning and warm sensation.

No clinically significant changes in reproductive hormones were observed during clinical studies.

#### Description of selected adverse reactions

##### Immunogenicity

Across repeated treatment in adults in the controlled phase III trials, transient positivity to anti-icatibant antibodies was observed in rare cases. All patients maintained efficacy. One icatibant treated patient tested positive for anti-icatibant antibodies before and after treatment with Icatibant. This patient was followed for 5 months and further samples were negative for anti-icatibant antibodies. No hypersensitivity or anaphylactic reactions were reported with icatibant.

##### Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions 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.

#### **4.9 Overdose**

No clinical information on overdose is available.

A dose of 3.2 mg/kg intravenously (approximately 8 times the therapeutic dose) caused transient erythema, itching, flushing or hypotension in healthy subjects. No therapeutic intervention was necessary.

## **5 PHARMACOLOGICAL PROPERTIES**

### **5.1 Pharmacodynamic properties**

Pharmacotherapeutic group: Other haematological agents, drugs used to treat hereditary angioedema

ATC Code: B06AC02.

#### Mechanism of Action

HAE (an autosomal dominant disease) is caused by an absence or dysfunction of C1-esterase-inhibitor. HAE attacks are accompanied by an increased release of bradykinin, which is the key mediator in the development of the clinical symptoms.

HAE manifests as intermittent attacks of subcutaneous and/or sub mucosal oedema involving the upper respiratory tract, the skin and the gastrointestinal tract. An attack usually lasts between 2 to 5 days.

Icatibant is a selective competitive antagonist at the bradykinin type 2 (B2) receptor. It is a synthetic decapeptide with a structure similar to bradykinin, but with 5 non-proteinogenic amino acids. In HAE increased bradykinin

concentrations are the key mediator in the development of the clinical symptoms.

#### Pharmacodynamic Effects

In healthy young subjects, icatibant administered in doses of 0.8 mg/kg over 4 hours; 1.5 mg/kg/day or 0.15 mg/kg/day for 3 days, development of bradykinin-induced hypotension, vasodilatation and reflex tachycardia was prevented. Icatibant was shown to be a competitive antagonist when the bradykinin challenge dose was increased 4-fold.

#### Clinical efficacy and safety

Efficacy data were obtained from an initial open-label Phase II study and from three controlled Phase III studies.

Phase III clinical studies (FAST-1 and FAST-2) were randomized, double-blind, controlled trials and had identical designs except for the comparator (one with oral tranexamic acid as the comparator and one placebo controlled). A total of 130 patients were randomized to receive either a 30 mg dose of icatibant (63 patients) or comparator (either tranexamic acid, - 38 or placebo - 29 patients). Subsequent episodes of HAE were treated in an open label extension. Patients with symptoms of laryngeal angioedema received open label treatment with icatibant. The primary efficacy endpoint was the time to onset of symptom relief using a visual analogue scale (VAS). Table 3 shows the efficacy results for these studies.

FAST-3 was a randomized, placebo-controlled, parallel-group study of 98 adult patients with a median age of 36 years. Patients were randomized to receive either icatibant 30 mg or placebo by subcutaneous injection. A subset of patients in this study experienced acute HAE attacks while receiving androgens, antifibrinolytic agents or CI inhibitors. The primary endpoint was time to onset of symptom relief assessed using a 3-item composite visual analog score (VAS-3) consisting of assessments of skin swelling, skin pain, and abdominal pain. Table 4 shows the efficacy results for FAST-3.

In these studies, patients on icatibant had a faster median time to onset of symptom relief (2.0, 2.5 and 2.0 hours, respectively) compared to tranexamic acid (12.0 hours) and placebo (4.6 and 19.8 hours). The treatment effect of icatibant was confirmed by secondary efficacy endpoints.

In an integrated analysis of these controlled Phase III studies, the time to onset of symptom relief and time to onset of primary symptom relief were similar regardless of age group, sex, race, weight or whether or not the patient used androgens or antifibrinolytic agents.

Response was also consistent across repeated attacks in the controlled Phase III trials. A total of 237 patients were treated with 1,386 doses of 30 mg icatibant for 1,278 attacks of acute HAE. In the first 15 Icatibant treated attacks (1,114 doses for 1,030 attacks), the median times to onset of symptom relief were similar across attacks (2.0 to 2.5 hours). 92.4% of these attacks of HAE were treated with a single dose of Icatibant.

**Table 3: Efficacy results for FAST-1 and FAST-2**

<b>Controlled Clinical Study of ICATIBANT vs Tranexamic acid or Placebo: Efficacy Results</b>	
<b>FAST-2</b>	<b>FAST-1</b>

	Ic ati ba nt	Tran exa mic acid		Ic ati ba nt	Pl ac eb o
Nu mbe r of subj ects in ITT Pop ulati on	36	38	Nu mbe r of subj ects in ITT Pop ulati on	27	2 9
Bas elin e VA S (m m)	63 .7	61.5	Bas elin e VA S (m m)	69 .3	6 7. 7
Cha nge fro m base line to 4 hou rs	- 41 .6	- 14.6	Cha nge fro m base line to 4 hou rs	- 44 .8	- 2 3. 5
Diff eren ce bet wee n treat men ts (95 % CI, p- valu e)	-27.8 (-39.4, 16.2) p <0.001		Diff eren ce bet wee n treat men ts (95 % CI, p- valu e)	-23.3 (-37.1, 9.4) p =0.002	

Change from baseline to 12 hours	-54.0	-30.3	Change from baseline to 12 hours	-54.2	-42.4
Difference between treatments (95% CI, p-value)	-24.1 (-33.6, 14.6) p < 0.001		Difference between treatments (95% CI, p-value)	-15.2 (-28.6, -1.7) p = 0.028	
Median time to onset of symptom relief (hours)			Median time to onset of symptom relief (hours)		
All episodes (N = 74)	2.0	12.0	All episodes (N = 56)	2.5	4.6

Response rate (% CI) at 4 hours after start of treatment			Response rate (% CI) at 4 hours after start of treatment		
All episodes (N = 74)	80.0 (63.1, 91.6)	30.6 (16.3, 48.1)	All episodes (N = 56)	66.7 (46.0, 83.5)	46.4 (27.5, 66.1)
Median time to onset of symptom relief: all symptoms (hours):			Median time to onset of symptom relief: all symptoms (hours):		
Abdominal pain	1.6	3.5	Abdominal pain	2.0	3.3

Skin swelling	2.6	18.1	Skin swelling	3.1	10.2
Skin pain	1.5	12.0	Skin pain	1.6	9.0
Median time to almost complete symptom relief (hours)			Median time to almost complete symptom relief (hours)		
All episodes (N = 74)	10.0	51.0	All episodes (N = 56)	8.5	19.4
Median time to regression of symptoms, by patient (hours)			Median time to regression of symptoms, by patient (hours)		

All episodes (N = 74)	0.8	7.9	All episodes (N = 56)	0.8	16.9
Median time to overall patient improvement, by physician (hours)			Median time to overall patient improvement, by physician (hours)		
All episodes (N = 74)	1.5	6.9	All episodes (N = 56)	1.0	5.7

**Table 4: Efficacy results for FAST-3**

<b>Efficacy Results: FAST-3; Controlled Phase -- ITT population</b>				
<b>Endpoint</b>	<b>Statistic</b>	<b>Icatibant</b>	<b>Placebo</b>	<b>p-value</b>
		(n = 43)	(n=45)	
Primary Endpoint				
Time to Onset of Symptom Relief - Compo	Median	2.0	19.8	<0.001

site VAS (hrs)				
Other Endpoints				
Time to Onset of Primary Symptom Relief (hrs)	Median	1.5	18.5	<0.001
Change in Composite VAS Score at 2 hrs after treatment	Mean	-19.74	-7.49	<0.001
Change in Composite Subject - Assessed Symptom Score at 2 hours	Mean	-0.53	-0.22	<0.001
Change in Composite Investigator-Assessed Symptom Score	Mean	-0.44	-0.19	<0.001

at 2 hours				
Time to Almost Complete Symptom Relief (hrs)	Median	8.0	36.0	0.012
Time to Subject - Assessed Initial Symptom Improvement (hrs)	Median	0.8	3.5	<0.001
Time to Investigator-Assessed Initial Visual Symptom Improvement (hrs)	Median	0.8	3.4	<0.001

A total of 66 patients with attacks of HAE affecting the larynx were treated in these controlled Phase III clinical trials. The results were similar to patients with non-laryngeal attacks of HAE with respect to time to onset of symptom relief.

*Paediatric population*

An open label, non-randomised single-arm study (HGT-FIR-086) was performed with a total of 32 patients. All patients received at least one dose of icatibant (0.4mg/kg body weight up to a maximum dose of 30 mg) and the majority of patients were followed up for a minimum of 6 months. Eleven patients were of prepubertal status and 21 patients were either pubertal or postpubertal.

The efficacy population consisted of 22 patients who had been treated with icatibant (11 prepubertal and 11 pubertal/postpubertal) for HAE attack.

The primary efficacy endpoint was the time to onset of symptom relief (TOSR) measured using a composite investigator-reported symptom score. Time to symptom relief was defined as the duration of time (in hours) taken for improvement of symptoms to occur by a magnitude of 20%. Overall the median time to onset of symptom relief was 1.0 hour (95% confidence interval, 1.0-1.1 hours). At 1 and 2 hours post treatment, approximately 50% and 90% of patients experienced onset of symptom relief, respectively. Overall, the median time to minimal symptoms (earliest time post treatment when all symptoms were either mild or absent) was 1.1 hours (95% confidence interval, 1.0-2.0 hours).

## 5.2 Pharmacokinetic properties

The pharmacokinetics of icatibant has been characterized by studies using both intravenous and subcutaneous administration to healthy volunteers and patients. The pharmacokinetic profile of icatibant in patients with HAE is similar to that in healthy volunteers.

### Absorption

Following subcutaneous administration, the absolute bioavailability of icatibant is 97%. The time to maximum concentration is approximately 30 minutes.

### Distribution

Icatibant volume of distribution ( $V_{ss}$ ) is about 20-25 L. Plasma protein binding is 44%.

### Elimination

Icatibant is mainly eliminated by metabolism with less than 10% of the dose eliminated in the urine as unchanged drug. Clearance is about 15-20 l/h and independent of dose. The terminal plasma half-life is about 1-2 hours.

### Biotransformation

Icatibant is extensively metabolized by proteolytic enzymes to inactive metabolites that are primarily excreted in the urine.

*In vitro* studies have confirmed that icatibant is not degraded by oxidative metabolic pathways and is not an inhibitor of major cytochrome P450 (CYP) isoenzymes (CYP 1A2, 2A6, 2B6, 2C8, 2C9, 2C19, 2D6, 2E1, and 3A4) and is not an inducer of CYP 1A2 and 3A4.

### Special populations

#### *Elderly*

Data suggest an age-related decline in clearance resulting in about 50-60% higher exposure in older people (75-80 years) compared to patients aged 40 years.

#### *Gender*

Data suggest that there is no difference in the clearance between females and males after correcting for body weight.

#### *Hepatic and Renal Impairment*

Limited data suggest that icatibant exposure is not influenced by hepatic or renal impairment.

#### *Race*

Information on individual race effect is limited. Available exposure data suggest no difference in the clearance between non-White (n=40) and White (n=132) subjects.

#### *Paediatric population*

The pharmacokinetics of icatibant were characterized in paediatric HAE patients in study HGT-FIR-086 (see section 5.1). Following a single subcutaneous administration (0.4 mg/kg up to a maximum of 30 mg), the time to maximum concentration is approximately 30 minutes and the terminal half-life is about 2 hours. There are no observed differences in the exposure to icatibant between HAE patients with and without an attack. Population pharmacokinetic modelling using both adult and paediatric data showed that clearance of icatibant is related to body weight with lower clearance values noted for lower body weights in the paediatric HAE population. Based on modelling for weight banded dosing, the predicted exposure to icatibant in the paediatric HAE population (see section 4.2) is lower than the observed exposure in studies conducted with adult HAE patients.

### **5.3 Preclinical safety data**

Repeated-dose studies of up to 6-months duration in rats and 9-months duration in dogs have been conducted. In both rats and dogs, there was a dose-related reduction in circulating sex hormone levels and the repeated use of icatibant reversibly delayed sexual maturation.

Maximum daily exposures defined by area under the curve (AUC) at the No Observed Adverse Effect Levels (NOAEL) in the 9-month study in dog were 2.3 times the AUC in adult humans after a subcutaneous dose of 30 mg. A NOAEL was not measurable in the rat study, however, all of the findings from that study showed either completely or partially reversible effects in treated rats. Adrenal gland hypertrophy was observed at all doses tested in rats. Adrenal gland hypertrophy was seen to reverse after cessation of icatibant treatment. The clinical relevance of the adrenal gland findings is unknown. Icatibant had no effect on the fertility of male mice (top dose 80.8 mg/kg/day) and rats (top dose 10 mg/kg/day).

In a 2 year study to evaluate the carcinogenic potential of icatibant in rats, daily doses giving exposure levels up to approximately 2-fold that achieved after a therapeutic dose in humans had no effect on the incidence or morphology of tumours. Results do not indicate a carcinogenic potential for icatibant.

In a standard battery of *in vitro* and *in vivo* tests icatibant was not genotoxic. Icatibant was not teratogenic when administered by SC injection during early embryonic and fetal development in rat (top dose 25 mg/kg/day) and rabbit (top dose 10 mg/kg/day). Icatibant is a potent antagonist of bradykinin and therefore, at high dose levels, treatment can have effects on the uterine implantation process and subsequent uterine stability in early pregnancy. These uterine effects also manifest in late stage pregnancy where icatibant exhibits a tocolytic effect resulting in delayed parturition in the rat, with increased fetal distress and perinatal death at high doses (10 mg/kg/day). A 2-week subcutaneous dose range finding study in juvenile rats identified 25 mg/kg/day as a maximally tolerated dose. In the pivotal juvenile toxicity study

in which sexually immature rats were treated daily with 3 mg/kg/day for 7 weeks, atrophy of testes and epididymides were observed; the observed microscopic findings were partially reversible. Similar effects of icatibant on reproductive tissue were seen in sexually mature rats and dogs. These tissue findings were consistent with reported effects on gonadotrophins and during the subsequent treatment-free period appear to be reversible. Icatibant did not elicit any cardiac conduction change *in vitro* (hERG channel) or *in vivo* in normal dogs or in various dog models (ventricular pacing, physical exertion and coronary ligation) where no associated hemodynamic changes were observed. Icatibant has been shown to aggravate induced cardiac ischemia in several non-clinical models, although a detrimental effect has not consistently been shown in acute ischemia.

## **6 PHARMACEUTICAL PARTICULARS**

### **6.1 List of excipients**

Sodium chloride  
Acetic acid, glacial (for pH adjustment)  
Sodium hydroxide (for pH adjustment)  
Water for injections

### **6.2 Incompatibilities**

Not applicable.

### **6.3 Shelf life**

24 months

### **6.4 Special precautions for storage**

Do not store above 25°C.  
Do not freeze.

### **6.5 Nature and contents of container**

3 ml of solution in a 3 ml prefilled syringe (clear type I glass) with a grey plunger stopper, a luer-tip with a white polypropylene backstop.

A separate hypodermic needle (25G, 16 mm) will be included to deliver Icatibant injection.

Pack size of one pre-filled syringe with one needle or a multipack containing three pre-filled syringes with three needles.

Not all pack sizes may be marketed.

## **6.6 Special precautions for disposal**

The solution should be clear and colourless and free from visible particles.

### Paediatric use

The appropriate dose to be administered is based on body weight (see section 4.2).

Where the required dose is less than 30 mg (3 ml), the following equipment is required to extract and administer the appropriate dose:

- Adapter (proximal and/or distal female luer lock connector/coupler)
- 3 ml (recommended) graduated syringe

The pre-filled icatibant syringe and all other components are for single use only.

Any unused product or waste material should be disposed of in accordance with local requirements.

All needles and syringes should be disposed of in a sharps container.

## **7 MARKETING AUTHORISATION HOLDER**

Genus Pharmaceuticals Ltd. (trading as 'STADA'),  
Linthwaite,  
Huddersfield,  
HD7 5QH,  
UK

## **8 MARKETING AUTHORISATION NUMBER(S)**

PL 20646/0088

## **9 DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

16/06/2022

## **10 DATE OF REVISION OF THE TEXT**

09/08/2022