WHAT IS RUCONEST?

RUCONEST is an injectable prescription medicine that is used to treat acute attacks of hereditary angioedema (HAE) in adult and adolescent patients over the age of 12.

IMPORTANT SAFETY INFORMATION

Do not use RUCONEST if you have experienced life-threatening immediate hypersensitivity reactions, including anaphylaxis, to RUCONEST or to any other C1 esterase inhibitor (C1-INH) product. Call your healthcare professional or the emergency department right away if you experience: wheezing, difficulty breathing, chest tightness, turning blue (look at lips and gums), fast heartbeat, swelling, faintness, rash or hives.

Please read the full Prescribing Information, including Patient Product Information by clicking here.
What is HAE?

The cause of HAE

Hereditary angioedema, also known as HAE, is linked to the blood protein C1 esterase inhibitor, or C1-INH.

- People who have HAE do not have enough C1-INH
- You can also have HAE if your C1-INH does not work well

The good news is that there are treatments that can help people with HAE.

What happens in the body to cause HAE attacks?

When working C1-INH levels are too low, blood factor 12a (FXIIa) increases. This activates the enzyme kallikrein and increases the peptide bradykinin. The result is an HAE attack.

Treat at the earliest signs and symptoms

Learn to recognize triggers that lead to attacks

These may include:

- Anxiety
- Stress
- Minor injuries
- Medicines
- Infections
- Dental work
- Changes in hormones, like those that happen when women are pregnant or have their period

Still, many swells occur without a clear trigger.

For best results, treat at the first sign of symptoms

Learn to recognize the signs that an HAE swell may be coming. Signs vary from person to person but may include:

- Exhaustion
- Rash
- Stomach pain
- Headache
- Difficulty swallowing and speaking
- Numbness or tingling
- Muscle and joint pain

Please read the full Prescribing Information, including Patient Product Information by clicking here.
HAE is not an allergic reaction

- If you have HAE, you may have attacks of swelling
- An attack can lead to swelling in almost any part of your body

HAE attacks of swelling can:

- Be extremely painful
- Be life-threatening
- Constrict airways
- Quickly progress to other parts of the body
- Happen at any moment and can get worse with time
- Last for up to 3 days

These products are not indicated to treat HAE:

- Prednisone
- Epinephrine
- Antihistamines

Swelling can start in one area and spread to other areas. In some cases, this can become life-threatening.

HAE swells can vary each time

- Symptoms vary among individuals and attacks

RUCONEST®
Clotesterase inhibitor (recombinant)

Please read the full Prescribing Information, including Patient Product Information by clicking here.
Rapid symptom relief in studies

- In Study 1, people taking RUCONEST started to see symptom relief in 90 minutes vs 152 minutes for placebo.
- In an extension of the same study, patients started to see symptom relief in 75 minutes with RUCONEST.

Start to symptom relief in Studies 2 and 3

RUCONEST dosed at 50 U/kg IV brought C1-INH into the normal range for 94% of patients.

Rapid symptom relief you can see

This person experienced a moderate to severe attack before treatment.

- Time of taking RUCONEST
- 1 hour after RUCONEST
- 4 hours after RUCONEST
- 24 hours after RUCONEST

Actual symptom relief from a RUCONEST study. Results may vary.

RUCONEST rapidly treated this attack with just 1 dose.

IMPORTANT SAFETY INFORMATION

Do not use RUCONEST if you have a known or suspected allergy to rabbits or rabbit-derived products. If you do not have a known rabbit allergy, testing is not required.
Symptom relief with just 1 dose of RUCONEST

97% OF ATTACKS NEEDED JUST ONE DOSE

- 89% of people needed just one 50 U/kg dose of RUCONEST per attack in a clinical study.

RUCONEST offered relief that lasts

- RUCONEST stopped 93% of attacks for at least 3 days.

- As shown in a review of studies that included 68 people (280 attacks).

RUCONEST has a favorable tolerability profile

- In clinical trials, the most common adverse reactions reported (>2%) were headache, nausea, and diarrhea.

IMPORTANT SAFETY INFORMATION

Tell your healthcare provider about all your medical conditions, including if you have a known allergy to rabbits. Tell your healthcare provider about any other medications you are taking, as some medications, such as birth control pills and certain androgens, can increase risk of clotting problems. Also tell your healthcare provider if you are pregnant, breastfeeding, or planning to do so.

Please read the full Prescribing Information, including Patient Product Information by clicking here.
RUCONEST is a plasma-free recombinant medicine

Recombinant medicines have been used to help people with many diseases

- **Arthritis**
  - Humira®
  - Simponi®

- **Hemophilia**
  - Alprolix®
  - Eloctate®

- **Asthma**
  - Xolair®
  - Nucala®

- **Cancer**
  - Herceptin®
  - Neulasta®

- **Diabetes**
  - Humulin® N
  - Humalog®

- **Blood Disorders**
  - Aranesp®
  - Epogen®

**IMPORTANT SAFETY INFORMATION**

For product information, adverse event reports, and product complaint reports, please contact Pharming U.S. toll-free:

- **(844) 474-2764** Main corporate number
- **(800) 930-5221** Adverse event, product complaints, medical information.

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**RUCONEST does not depend on human plasma donations to treat HAE**

<table>
<thead>
<tr>
<th>Human Plasma Donations for 1 Person for 1 Year*</th>
</tr>
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<tbody>
<tr>
<td>1.2 TONS</td>
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<tr>
<td>or</td>
</tr>
<tr>
<td>1400 DONATIONS</td>
</tr>
<tr>
<td>Haegarda® [a] 2x a week</td>
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<tr>
<td>0.6 TONS</td>
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<tr>
<td>or</td>
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<tr>
<td>712 DONATIONS</td>
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<tr>
<td>Cinryze® [b] 2x a week</td>
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<td></td>
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<tr>
<td>or</td>
</tr>
<tr>
<td>470 DONATIONS</td>
</tr>
<tr>
<td>Berinert® [c] if 2x a week</td>
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</tbody>
</table>

*Plasma yield ranges from 20%-50% (assumed 50%).

[a] Haegarda® 60 IU/kg.
[b] Cinryze® 1000-2500 U.
[c] Berinert® 20 IU/kg.

Information is presented only to show how various products are sourced; it is not intended to suggest comparative safety or efficacy. Haegarda and Cinryze are used regularly to prevent attacks from happening. Trademarks are the property of their respective owners.

**Recombinant technology provides a reliable supply**

**RUCONEST 50 IU/kg NO DONATIONS**

Please read the full Prescribing Information, including Patient Product Information by clicking here.
Benefits of recombinant RUCONEST

**SUPPLY**
Reliable supply that does not depend on plasma donations

**PURITY**
More than 99.998% free of host-related impurities

**SAFETY**
Recombinant design eliminates risk of human blood-borne viruses

**STABILITY**
4-year shelf life when stored at room temperature (36°F-77°F)

RUCONEST for Women of Childbearing Age

There are no adequate and well-controlled studies of RUCONEST or any HAE treatment in pregnant women

- RUCONEST 50 U/kg (max 4200 U) was administered to pregnant women for acute HAE attacks or prophylaxis in a retrospective case collection study (n=14)
- All women delivered at full term without complications
- No adverse events related to RUCONEST treatment were reported

- These data cannot definitively establish the absence of any risk because of the small sample size

IMPORTANT SAFETY INFORMATION
The most common side effects patients experienced during clinical studies include headache, nausea and diarrhea. These are not all the possible side effects of RUCONEST.

Please read the full Prescribing Information, including Patient Product Information by clicking here.
RUCONEST is an On-The-Go Treatment

RUCONEST Can Travel With You

- RUCONEST is portable and can be self-administered after training
- After reconstitution, RUCONEST is injected over 5 minutes with a small butterfly needle
- Prior to reconstitution
  - RUCONEST doesn’t need to be refrigerated
  - RUCONEST has a 4-year shelf life when stored at room temperature (33°F-77°F)

Please read the full Prescribing Information, including Patient Product Information by clicking here.

RUCONEST can be Self Administered

After being trained
~85% of Ruconest patients were confident self-injecting their IV

Initial training may be done by your doctor
RUCONEST SOLUTIONS provides nursing support

RUCONEST can be self-administered. Dedicated nurses provide training in your own home as often as you need it.

Training on appropriate vein care that can help support long-term self-administration of RUCONEST

Developing your individualized Emergency Care Plan

Coordinating on-demand home infusion services by a specialty pharmacy nurse if you’re not able to self-administer RUCONEST

*Availability subject to your geographic location.

Please read the full Prescribing Information, including Patient Product Information by clicking here.
Keep HAE attacks grounded with plasma-free RUCONEST

- 97% of acute attacks were successfully treated with just one dose
- Relief that lasted for at least three days
- High dose of C1-INH to treat the root cause of HAE
- Symptom relief that’s proven rapid and reliable
- Recombinant design with a dependable supply
- Individualized nurse support
- Most common side effects included headache, nausea, and diarrhea

To get more information, visit www.RUCONEST.com

My Healthcare Provider’s Name

Phone Number

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