

C1 ESTERASE INHIBITOR

BRAND NAME	BERINERT IV, BERINERT SC, CINRYZE
DRUG CLASS	Immunomodulator for angioedema
AVAILABILITY	<p>Beriner SC vial contains 2000 or 3000 international units of C1 esterase inhibitor. Also contains glycine, sodium citrate and sodium chloride. Diluent vial contains 4 mL (2000 I.U) or 6 mL(3000 I.U) of water for injections.</p> <p>Beriner IV vial contains 500 or 1500 international units of C1 esterase inhibitor. Also contains glycine, sodium citrate and sodium chloride. Contains up to 486 mg/100 mL of sodium. Diluent vial contains 10 mL of water for injections.¹</p> <p>Cinryze vial contains 500 international units of C1 esterase inhibitor. Also contains sodium chloride, sucrose, sodium citrate dihydrate, valine, alanine and threonine. Contains 0.5 mmol of sodium. Diluent vial contains 5 mL of water for injections.¹</p>
WARNING	<p>This is a blood product. Check your local guidelines for handling, storage and batch recording requirements.</p> <p>Severe hypersensitivity and anaphylactic reactions may occur.¹</p>
pH	Cinryze: 6.6–7.4 ²
PREPARATION	<p>Beriner SC: reconstitute the 2000 IU vial with 4 mL or the 3000 IU vial with 6 mL of water for injections. Use the Mix2Vial adaptor provided to reconstitute the vial and to filter solution. Gently swirl the vial until dissolved, it may take up to 10 minutes. Do not shake. The concentration is 500 international units/mL. The solution is clear and colourless to slightly opalescent.¹</p> <p>Beriner IV: reconstitute the 500 IU vial with 10 mL or the 1500 IU vial with 3 mL of water for injections. The concentration is 50 or 500 international units/mL.¹ Use the Mix2Vial adaptor provided to reconstitute the vial and to filter solution. Do not shake. The solution is clear and colourless, the 1500 IU solution may be slightly opalescent.¹</p> <p>Cinryze: reconstitute the vial with 5 mL of water for injections to make a concentration of 100 international units/mL.¹ Use the silicone-free syringe and transfer device provided to reconstitute the vials and filter the solution. Do not shake. Follow directions on the package insert. Two vials are combined to make a dose of 1000 international units. The solution is clear and colourless to slightly blue.¹</p>
STABILITY	<p>Beriner SC vial: store below 30 °C. Do not freeze. Protect from light.¹</p> <p>Beriner IV and Cinryze vial: store below 25 °C. Do not freeze. Protect from light.¹</p> <p>Beriner SC reconstituted solution is stable for 6 hours below 30 °C.¹</p> <p>Beriner IV 500 IU reconstituted solution is stable for 24 hours at 2 to 8 °C.¹</p> <p>Beriner IV 1500 IU reconstituted solution is stable for 8 hours at 2 to 8 °C.¹</p> <p>Cinryze reconstituted solution is stable for 3 hours at 15 to 25 °C.¹</p>
ADMINISTRATION	
IM injection	Not recommended
SUBCUT injection	<p>Beriner SC: inject into the abdomen.¹</p> <p>Suitable for self-administration after appropriate patient education.¹</p>
IV injection	<p>Beriner IV: inject at a rate of 4 mL/minute.¹ Cinryze: inject at a rate of 1 mL/minute.¹</p> <p>Suitable for self-administration after appropriate patient education.¹</p>
IV infusion	Not recommended
IV use for infants and children	<p>Beriner IV: inject undiluted at a rate of 4 mL/minute (200 international units/minute).¹</p> <p>Cinryze: inject undiluted at a rate of 1 mL/minute (100 international units/minute).¹ May also be given as an infusion.³</p>
COMPATIBILITY	No information
INCOMPATIBILITY	No information

SPECIAL NOTES Monitor for signs of hypersensitivity including hives, urticaria, tightness of chest, wheezing, hypotension and anaphylaxis. Stop the infusion and treat accordingly.¹

REFERENCES

1. Product information Available from www.tga.gov.au. Accessed 02/02/2021.
2. Cinryze. US prescribing information. Exton, PA; ViroPharma Biologics. Approved 2008. Updated 07/2018. Available from www.dailymed.nlm.nih.gov. Accessed 02/10/2019.
3. Paediatric Formulary Committee. BNF for children. Basingstoke, UK: Pharmaceutical Press; 2018-2019.