Alpha1 antitrypsin (AAT) is the principle protease inhibitor in serum. Its major physiologic role is to render proteolytic enzymes (secreted during inflammation) inactive. A decrease in AAT, as seen in congenital AAT deficiency, leads to increased elastic damage in the lung, causing emphysema.

Pre-Authorization Criteria:

chronic augmentation and maintenance therapy in adults with congenital alpha1-proteinase inhibitor (A1-PI) deficiency (also known as alpha1-antitrypsin [ATT] deficiency) and clinical evidence of emphysema.

Dosing: 60 mg/kg IV at approximately 0.08 mL/kg/min, once weekly

How Supplied: 1000mg single-use vial, plus 20 mL vial of Sterile Water

Contraindications/Warnings: (IgA)-deficient patients with antibodies against IgA (risk of severe hypersensitivity due to trace amounts of IgA)

Major Adverse Reactions: hypersensitivity (e.g. rash), headache, nausea

Generic Equivalent Available: No

REFERENCES


UpToDate 2015: Alpha-1 proteinase inhibitor: Drug information
Revision History:

Date Approved by P&T Committee: 04/22/14; QAC: 05/27/14
Date Reviewed/No Updates: 1/13/15 by C. Sanders, MD
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Date Approved by P&T Committee: 1/23/18
Date Reviewed/No Updates: 1/22/19 by C. Sanders, MD; R. Sterling, MD
Date Approved by P&T Committee: 1/22/19

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