



Product Datasheet

Product Name	Alpha-1 AntiChymotrypsin Human
Cata No	CB500999
Source	<i>Human Serum</i>
Synonyms	Alpha-1-antichymotrypsin, ACT, Cell growth-inhibiting gene 24/25 protein, SERPINA3, AACT, A1ACT, GIG24, GIG25, MGC88254.

Description

Alpha 1 ACT is an early-stage acute-phase plasma protein and a serpin that preferentially inactivates chymotrypsin, cathepsin G, and chymase. Alpha-1-ACT, a serine protease inhibitor, is tightly associated with amyloid plaques in Alzheimer's disease (AD) and in normal aged human and monkey brain.

Regulation of the serine proteases and serine protease inhibitors plays an important role in neuromuscular differentiation. Prostate specific antigen (PSA), a chymotrypsin-like serine protease, is predominantly complexed to Alpha-1-ACT.

Human Alpha-1 AntiChymotrypsin produced from normal human serum having a molecular mass of 68kDa.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 99.0%.

Formulation

Lyophilized from 0.02M NH_4HCO_3 .

Reconstitution

It is recommended to reconstitute the lyophilized human A1ACT in phosphate buffer pH > 7.0 containing 0.15M NaCl.

Stability

Human A1ACT although stable at room temperature for 3 weeks, should be stored between 2-8°C.

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