

## 32-4808: Recombinant Human Alpha-1 AntiChymotrypsin

**Alternative Name** Alpha-1-antichymotrypsin,ACT,Cell growth-inhibiting gene 24/25  
:  
protein,SERPINA3,AACT,A1ACT,GIG24,GIG25,MGC88254.

### Description

Source : Escherichia Coli. SERPINA3 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 421 amino acids (24-423 a.a.) and having a molecular mass of 47.6 kDa.The SERPINA3 is purified by proprietary chromatographic techniques. 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.

### Product Info

**Amount :** 25 µg

**Purification :** Greater than 95.0% as determined by SDS-PAGE.

**Content :** The SERPINA3 solution contains 20mM Tris-HCl buffer pH-8, 1mM DTT, and 10% glycerol.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MHPNSPLDEE NLTQENQDRG THVDLGLASA NVDFAFSLYK  
QLVLKAPDKN VIFSPLSIST ALAFLSLGAH NTTLTEILKG LKFNLTTETSE AEIHQSFQHL LRTLNQSSDE  
LQLSMGNAMF VKEQLSLLDR FTEDAKRLYG SEAFATDFQD SAAAKKLIND YVKNNGTRGKI TDLIKDLDSQ  
TMMVLVNYIF FKAKWEMPFD PQDTHQSRFY LSKKKWVMVP MMSLHHLTIP YFRDEELSCT VVELKYTGNA  
SALFILPDQD KMEEVEAMLL PETLKRWRDS LEFREIGELY LPKFSISRDI NLNDILLQLG IEEAFTSKAD  
LSGITGARNL AVSQVVKAV LDVFEEGTEA SAATAVKITL LSALVETRTI VRFNRPFLMI IVPTDTQNIF  
FMSKVTNPKQ A.

