9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SERPINA3

Alpha-1 AntiChymotrypsin Human Recombinant
RCP2036

Product Overview

Name	SERPINA3
Description	
Alpha-1 AntiChymotrypsin Human Recombinant	
Accession (Primary)	P01011
Synonyms	
Alpha-1-antichymotrypsin, ACT, Cell growth-inhibiting gene 24/25 protein, SERPINA3, AACT, A1ACT, GIG24, GIG25, MGC88254.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The SERPINA3 solution contains 20mM Tris-HCl buffer pH-8, 1mM DTT, and 10% glycerol.	
Stability	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MHPNSPLDEE NLTQENQDRG THVDLGLASA NVDFAFSLYK QLVLKAPDKN VIFSPLSIST ALAFLSLGAH NTTLTEILKG LKFNLTETSE AEIHQSFQHL LRTLNQSSDE LQLSMGNAMF VKEQLSLLDR FTEDAKRLYG SEAFATDFQD SAAAKKLIND YVKNGTRGKI TDLIKDLDSQ TMMVLVNYIF	

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FKAKWEMPFD PQDTHQSRFY LSKKKWVMVP MMSLHHLTIP YFRDEELSCT VVELKYTGNA SALFILPDQD KMEEVEAMLL PETLKRWRDS LEFREIGELY LPKFSISRDY NLNDILLQLG IEEAFTSKAD LSGITGARNL AVSQVVHKAV LDVFEEGTEA SAATAVKITL LSALVETRTI VRFNRPFLMI IVPTDTQNIF FMSKVTNPKQ A.

Precautions

SERPINA3 is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01011)