

Recombinant Human SERPINA3

Cat. No. SERPINA3-487H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human alpha-1-antichymotrypsin protein was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 47.6 kDa (421aa).
Species	Human
Source	E.coli
Description	Alpha-1-antichymotrypsin is a plasma protease inhibitor and member of the serine protease inhibitor class. Polymorphisms in this protein appear to be tissue specific and influence protease targeting. Variations in this protein's sequence have been implicated in Alzheimer's disease, and deficiency of this protein has been associated with liver disease. Mutations have been identified in patients with Parkinson disease and chronic obstructive pulmonary disease.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MHPNSPLDEE NLTQENQDRG THVDLGLASA NVDFAFSLYK QLVLKAPDKN VIFSPLSIST ALAFLSLGAH NTTLTEILKG LKFNLTETSE AEIHQSFQHL LRTLNQSSDE LQLSMGNAMF VKEQLSLDDR FTEDAKRLYG SEAFATDFQD SAAAKKLIND YVKNQTRGKI TDLIKDLDSQ TMMVLVNYIF FKAkWEMPFQ PQDTHQSRFY LSKKKWVMVP MMSLHHLTIP YFRDEELSCT VVELKYTGNA SALFILPDQD KMEEVEAMLL PETLKRWRDS LEFREIGELY LPKFSISRDY NLNDILLQLG IEEAFTSKAD LSGITGARNL AVSQVVHKAV LDVFEEGTEA SAATAVKITL LSALVETRTI VRFNRPFLMI IVPTDTQNIF FMSKVTNPKQ A

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Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT.
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	SERPINA3 serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3 [Homo sapiens]
Synonyms	SERPINA3; serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 3; ACT; AACT; GIG24; GIG25; MGC88254; serpin peptidase inhibitor, clade A, member 3; alpha-1-antichymotrypsin; growth-inhibiting protein 24; growth-inhibiting protein 25; serine (or cysteine) proteinase inhibitor, clade A, member 3; Cell growth-inhibiting gene 24/25 protein; Alpha-1-antichymotrypsin His-Pro-less; antichymotrypsin
Gene ID	12
mRNA Refseq	NM_001085
Protein Refseq	NP_001076
MIM	107280
UniProt ID	P01011

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Chromosome Location	14q32.1
Function	DNA binding; peptidase inhibitor activity; protein binding; serine-type endopeptidase inhibitor activity

PDB rendering based on 1as4.

