

Recombinant Human SERPINA3

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

SPECIFICATION

Product Overview Recombinant human alpha-1-antichymotrypsin protein was expressed in *E.coli* 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

MGSSHHHHH SSGLVPRGSH MHPNSPLDEE NLTQENQDRG THVDLGLASA
 NVDFAFSLYK QLVLKAPDKN VIFSPLSIST ALAFLSLGAH NTTLTEILKG
 LKFNLTETSE AEIHQSFQHL LRTLNQSSDE LQLSMGNAMF VKEQLSLDR
 FTEDAKRLYG SEAFATDFQD SAAAKKLIND YVKNQTRGKI TDLIKDLDSQ
 TMMVLVNYIF FKAkWEMPFQD PQDTHQSRFY LSKKKWVMVP MMSLHHLTIP
 YFRDEELSCT VVELKYTGNA SALFILPDQD KMEEVEAMLL PETLKRWRDS
 LEFREIGELY LPKFSISRDY NLNDILLQLG IEEAFTSKAD LSGITGARNL
 AVSQVVHKAV LDVFEEGTEA SAATAVKITL LSALVETRTI VRFNRPFLMI
 IVPTDTQNI FMSKVTNPKQ A

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

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