

Recombinant human Serpin A3/Alpha-1-antichymotrypsin protein

Catalog Number: ATGP0420

PRODUCT INFORMATION

Expression system

E.coli

Domain

24-423aa

UniProt No.

P01011

NCBI Accession No.

NP_001076

Alternative Names

Serpin peptidase inhibitor clade A member 3, AACT, ACT, GIG24, GIG25, SERPINA3, Serpin peptidase inhibitor, clade A, member 3 Cell growth inhibiting gene 24/25 protein, Growth inhibiting protein 24, Antichymotrypsin, Growth inhibiting protein 25, MGC88254, Serine (or cysteine) proteinase inhibitor clade A (alpha 1 antiproteinase, antitrypsin) member 3, Serine (or cysteine) proteinase inhibitor clade A member 3, Serine proteinase inhibitor clade A member 3, Serpin peptidase inhibitor clade A (alpha 1 antiproteinase antitrypsin) member 3.

PRODUCT SPECIFICATION

Molecular Weight

47.6 kDa (421aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Alpha-1-antichymotrypsin is a plasma protease inhibitor and member of the serine protease inhibitor class.

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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. Recombinant alpha-1-antichymotrypsin protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

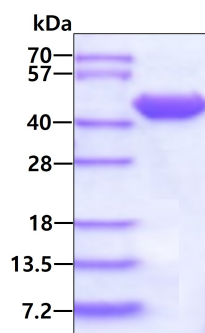
<MGSSHHHHHH SGLVPRGSH M>HPNSPLDEE NLTQENQDRG THVDLGLASA NVDFAFSLYK QLVLKAPDKN
VIFSPLSIST ALAFLSLGAH NTTLTEILKG LKFNLTETSE AEIHQSFOHL LRTLNQSSDE LQLSMGNAMF VKEQLSLLDR
FTEDAKRLYG SEAFATDFQD SAAAKKLIND YVKNQTRGKI TDLIKDLSQ TMMVLVNYIF FKAKWEMPFD PQDTHQSRFY
LSKKKWVMVP MMSLHHLTIP YFRDEELSCT VVELKYTGNA SALFILPDQD KMEEVEAMLL PETLKRWRDS LEFREIGELY
LPKFSISRDI NLNDILLQLG IEEAFTSKAD LSGITGARNL AVSQVVKAV LDVFEEGTEA SAATAVKITL LSALVETRTI
VRFNRPFLMI IVPTDTQNI FMSKVTNPKQ A

General References

Kamboh MI., et al. (2006) Neurobiol Aging. 27(10):1435-9.
Tachikawa H., et al. (2001) J Hum Genet. 46(1):45-7.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.