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.

Recombinant human Serpin A3/Alpha-1-antichymotrypsin protein

Catalog Number: ATGP0420

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

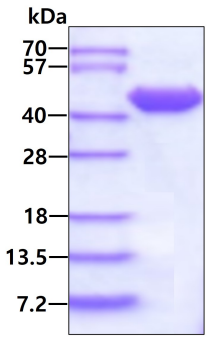
<MGSSHHHHHH SSGLVPRGSH M>HPNSPLDEE NLTQENQDRG THVDLGLASA NVDFAFSLYK QLVLKAPDKN VIFSPLSIST ALAFLSLGAH NTTLTEILKG LKFNLTETSE AEIHQSFQHL LRTLNQSSDE LQLSMGNAMF VKEQLSLLDR FTEDAKRLYG SEAFATDFQD SAAAKKLIND YVKNGTRGKI TDLIKDLDSQ TMMVLVNYIF FKAKWEMPFD PQDTHQSRFY LSKKKWVMVP MMSLHHLTIP YFRDEELSCT VVELKYTGNA SALFILPDQD KMEEVEAMLL PETLKRWRDS LEFREIGELY LPKFSISRDY NLNDILLQLG IEEAFTSKAD LSGITGARNL AVSQVVHKAV LDVFEEGTEA SAATAVKITL LSALVETRTI VRFNRPFLMI IVPTDTQNIF 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.