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# 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, 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**

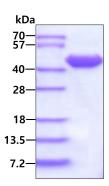
<MGSSHHHHHH SSGLVPRGSH M>HPNSPLDEE NLTQENQDRG THVDLGLASA NVDFAFSLYK QLVLKAPDKN VIFSPLSIST ALAFLSLGAH NTTLTEILKG LKFNLTETSE AEIHQSFQHL LRTLNQSSDE LQLSMGNAMF VKEQLSLLDR FTEDAKRLYG SEAFATDFQD SAAAKKLIND YVKNGTRGKI TDLIKDLDSQ TMMVLVNYIF FKAKWEMPFD PQDTHQSRFY LSKKKWVMVP MMSLHHLTIP YFRDEELSCT VVELKYTGNA SALFILPDQD 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.

