

AR09303PU-N

Human Alpha-1-antichymotrypsin / ACT (24-423, His-tag) - Purified

Alternate names:	AACT, Cell growth-inhibiting gene 24/25 protein, GIG24, GIG25, SERPINA3
Quantity:	0.1 mg
Concentration:	1.0 mg/ml (determined by Bradford assay)
Background:	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.
Uniprot ID:	P01011
NCBI:	NP_001076
GeneID:	12
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% by SDS – PAGE Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT
Description:	Recombinant alpha-1-antichymotrypsin protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques. AA Sequence: MGSSHHHHHH SSGLVPRGSH MHPNSPLDEE NLTQENQDRG THVDLGLASA NVDFAFSLYK QLVLKAPDKN VIFSPLSIST ALAFLSLGAH NTTLTETLKG LKFNLTTETSE AEIHQSFQHL LRTLNQSSDE LQLSMGNAMF VKEQLSLLDR FTEDAKRLYG SEAFATDFQD SAAAKKLIND YVKNGTGRKI TDLIKDLDSQ TMMVLVNYIF FKAKWEMPFD PQDTHQSRFY LSKKKWVMVP MMSLHHLTIP YFRDEELSCT VVELKYTGNA SALFILPDQD KMEEVEAMLL PETLKRWRDS LEFREIGELY LPKFSISRDI NLNDILLQLG IEEAFTSKAD LSGITGARNL AVSQVVHKAV LDVFEEGTEA SAATAVKITL LSALVETRTI VRFNRPFMI IVPTDTQNI FMSKVTNPQK A Molecular weight: 47.6 kDa (421 aa)
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Kamboh MI., et al. (2006) Neurobiol Aging. 27(10):1435-9. Tachikawa H., et al. (2001) J Hum Genet. 46(1):45-7.

Pictures:

Recombinant human
Alpha-1-antichymotrypsin (24-423 aa),
His-tagged: 15% SDS-PAGE (3 µg)

