

Product information



Antitrypsin, 25-418aa

Human, Recombinant, *E.coli*

Cat. No. IBATR0901

Size: 0.5 mg
Size: 100 ug

Full name: Alpha-1 antiproteinase (Serine proteinase inhibitor)

NCBI Accession No.: NP_000286.3

Synonyms: PI, A1A, AAT, PI1, A1AT, MGC9222, PRO2275, MGC23330, SERP1NA1

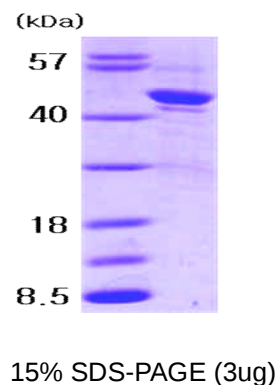
Description: Alpha 1 proteinase inhibitor (Antitrypsin) has a characteristic secondary structure of beta sheets and alpha helices. That is a serum glycoprotein synthesized in the liver. It acts as an elastase inhibitor, primarily inhibiting neutrophil elastase, chymotrypsin, collagenase, leucocytic proteases, plasmin, and thrombin, which may be released during inflammatory reactions in the lung. Also Increase in Antitrypsin occurs as an acute phase response to tissue necrosis and inflammation. Serum level of Antitrypsin is elevated in rheumatoid arthritis, bacterial infections, vasculitis, and carcinomatosis. Recombinant Antitrypsin protein was expressed in *E.coli* and purified by using conventional chromatography techniques.

Form: Liquid in 20mM Tris pH 7.5, 10% glycerol, 1mM DTT, 2mM EDTA

Molecular Weight: 44.4kDa (395aa)

Purity: > 90% by SDS PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



Sequences of amino acids:

MEDPQGDAQ KTDTSHHQD HPTFNKITPN LAEFAFLYR QLAHQSNSTN IFFSPVSIAT AFAMLSLGTK ADTHDEILEG LNFNLTEIPE
AQIHEGFQEL LRTLNPDSQ LQLTTGNGLF LSEGLKLVOK FLEDVKKLYH SEFTVNFGD TEEAKKQIND YVEKGTQGGI VDLVKELDRD
TVFALVNYIF FKGKWERPFE VKDTEEDFH VDQVTTVKVP MMKRLGMFNI QHCKKLSSWW LLMKYLGNAT AIFFLPDEGK LQHLENELTH
DIITKFLNE DRRSASLHLP KLSITGTYDL KSVLGQLGIT KVFSNGADLS GVTEEAPLKL SKAVHKAVLT IDEKGTEAAG AMFLEAIPMS
IPPEVKFNKP FVFLMDQNT KSPLFMGKVV NPTQK

General references:

Kolarich D., *et al.* (2006). *Proteomics*. **6**(11):3369-80

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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Wu Y., *et al.* (1991). *Bioessays*. **13**(4):163-9

Storage: Store at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freeze / thaw cycles.

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