



Antitrypsin, 25-418aa, Human, Recombinant, E.coli

Cat.NO.: TP01175

3th Edition

Synonyms: Alpha-1 antiproteinase (Serine proteinase inhibitor), 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.

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

Molecular Weight: 44.4kDa (395aa)

Sequences:

MEDPQGDAAQKTDTS HDQDHPTFNKITPNLAEFAFSLYRQLAHQSNSTNIFFSPVSIATAFAMLSGTKADTHDEI
LEGLNFNLTEIPEAQIHEGFQELLRTLNQPDSQLQLTGNGFLSEGLKLVDKFLEDVKKLYHSEAFTVNFGDTEEAK
KQINDYVEKGQTQGKIVDLVKELDRDTVFALVNYIFFKGKWERPFEVKDTEEEFDHV DQVTTVKVPMMKRLGMFNIQ
HCKKLSSWVLLMKYLG NATAIFFLPDEGKLQHLENELTHDIITKFL ENEDRRSASLHLPKLSITGYDLKSVLGQLGIT
KVFSNGADLSGVTEEAPLKLSKA VHKA VLTIDEKGTEAAGAMFLEAIPMSIPPEVKFNKP VFLMIDQNTKSPLFMGK
VVNPTQK

Purity: > 95% by HPLC

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

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.