

ABGENEX Pvt. Ltd., E-5, Infocity, KIIT Post Office, Tel: +91-674-2720712, +91-9437550560 Email: info@abgenex.com Bhubaneswar, Odisha - 751024, INDIA

## 32-4806: Recombinant Human Alpha-1 Antitrypsin

Alternative Alpha-1-antitrypsin, Alpha-1 protease inhibitor, Alpha-1-

Name: antiproteinase, SERPINA1, A1AT, PI, A1A, AAT, PI1, MGC9222, PRO2275, MGC23330.

## **Description**

Source: Escherichia Coli. SERPINA1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 395 amino acids (25-418) and having a molecular mass of 44.4 kDa. The SERPINA1 protein is purified by proprietary chromatographic techniques. SERPINA1 is secreted and is a serine protease inhibitor which its targets include elastase, plasmin, collagenase, thrombin, leucocytic proteases, trypsin, chymotrypsin, and plasminogen activator. Defects in SERPINA1 gene can cause emphysema or liver disease. Antral SERPINA1 expression is particularly induced by H. pylori infection. lung and prostate cancers have shown a significant increase in SERPINA1 serum levels compared with healthy controls though breast cancers did not show a significant change. SERPINA1 is an endogenous inhibitor of serine proteases and inhibits the catalytic domain of human recombinant matriptase in vitro. Rise in SERPINA1 occurs as an acute phase response to tissue necrosis and inflammation. mutations in SERPINA1 and SLC11A1 genes change the balance between elastase produced by leukocytes during phagocytosis.

## **Product Info**

Amount: 25 µg

**Purification:** Greater than 90% as determined by SDS-PAGE.

Content: The protein solution contains 20mM Tris-HCl pH-7.5, 1mM DTT, 10% glycerol, and 2mM EDTA.

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of

Storage condition: time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid

multiple freeze-thaw cycles.

Amino Acid: MEDPQGDAAQ KTDTSHHDQD HPTFNKITPN LAEFAFSLYR QLAHQSNSTN IFFSPVSIAT

AFAMLSLGTK ADTHDEILEG LNFNLTEIPE AQIHEGFQEL LRTLNQPDSQ LQLTTGNGLF LSEGLKLVDK FLEDVKKLYH SEAFTVNFGD TEEAKKQIND YVEKGTQGKI VDLVKELDRD TVFALVNYIF FKGKWERPFE VKDTEEEDFH VDQVTTVKVP MMKRLGMFNI QHCKKLSSWV LLMKYLGNAT AIFFLPDEGK LQHLENELTH DIITKFLENE DRRSASLHLP KLSITGTYDL KSVLGQLGIT KVFSNGADLS GVTEEAPLKL SKAVHKAVLT IDEKGTEAAG AMFLEAIPMS

IPPEVKFNKP FVFLMIDQNT KSPLFMGKVV NPTQK.

