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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Human Alpha-1 Antitrypsin

CLPRO456
CLPRO456-2
CLPRO456-3

Introduction: 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.

Description: SERPINA1 extracted from human serum and having a 52kDa molecular weight is purified by proprietary chromatographic techniques.

Synonyms: Alpha-1-antitrypsin, Alpha-1 protease inhibitor, Alpha-1-antiproteinase, SERPINA1, A1AT, PI, A1A, AAT, PI1, MGC9222, PRO2275, MGC23330.

Source: Human Serum.

Presentation: 100 µg (CLPRO456), 0.5 mg (CLPRO456-2), or 5 mg (CLPRO456-3), sterile filtered white lyophilized (freeze-dried) powder. SERPINA1 is lyophilized in PBS pH 7.4.

Solubility: It is recommended to reconstitute the lyophilized SERPINA1 in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized SERPINA1 should be stored at 4°C. Upon reconstitution, store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity: Greater than 95% as determined by SDS-PAGE.

Laboratory Reagent For Research Use Only

JK 11/14/18

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