9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

SERPINA1 Human, Active

Alpha-1 Antitrypsin, Active Human Recombinant
RCP2035

Product Overview

Name	SERPINA1 Human, Active

Description

Alpha-1 Antitrypsin, Active Human Recombinant

Accession (Primary)	P01009

Synonyms

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

Introduction

SERPINA1 is secreted and is a serine protease inhibitor which its targets include elastase, plasmin, collagenase, leucocytic proteases, trypsin, chymotrypsin, and plasminogen activator. Defects in SERPINA1 gene can cause emphysema or liver disease. 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.

Source

Rice Grain (Oryza Sativa).

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

SERPINA1 was lyophilized from a concentrated solution containing recombinant Albumin.

Stability

Lyophilized SERPINA1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SERPINA1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 95% as determined by SDS-PAGE.

Biological Activity

3~5 mg SERPINA1 will inhibit 1 mg PPE with an activity of 10.8 units per mg protein

9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Solubility

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

Precautions

SERPINA1 Human, Active is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01009)