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

SERPINA1

Alpha 1 Antitrypsin Human
RCP2033

Product Overview

Name	SERPINA1
Description	
Alpha 1 Antitrypsin Human	
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, 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.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
SERPINA1 is lyophilized in PBS pH 7.4.	
Stability	
Lyophilized SERPINA1 should be stored at 4°C.	
Purity	
Greater than 95% as determined by SDS-PAGE.	
Solubility	
It is recommended to reconstitute the lyophilized SERPINA1 in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.	
Precautions	

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

Target Information: (P01009)