Recombinant Human Serpin A1/Alpha-1-antitrypsin Protein

Catalog No.: RP00287

Sequence Information

Species	Gene ID
Human	5265
Swiss Prot	**Tags**
P01009	C-His

Synonyms

A1A, A1AT, AAT, PI, PI1, PRO2275, alpha1AT,SERPINA1,A1AT,AAT,PI, PI1,PRO2275,alpha1AT

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.
Calculated MW	**Observed MW**
45.16 kDa	50-60 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Basic Information

Description

Recombinant Human Serpin A1/Alpha-1-antitrypsin Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu25-Lys418) of human alpha 1 Antitrypsin (Accession #NP_000286.3) fused with a 6×His tag at the C-terminus.

Activity

Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The IC50 value is approximately <0.4 nM.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20℃

Operational Notes

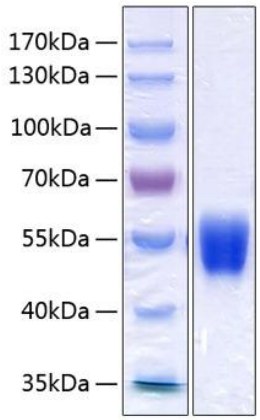
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

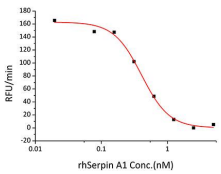
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Validation Data



Recombinant Human Serpin A1/Alpha-1-antitrypsin Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant human SERPINA1 inhibits trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The IC50 value is approximately <0.4nM.