

Recombinant Human Serpin A1/Alpha-1-antitrypsin Protein

Catalog No.: RP00287 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 5265 P01009

Tags

C-His

Synonyms

A1A; A1AT; AAT; PI; PI1; PRO2275; alpha1AT;SERPINA1;A1AT;AAT;PI;PI1;PRO 2275;alpha1AT

Product Information

Source Purification HEK293 cells > 97% by SDS-PAGE.

Endotoxin

 $< 1.0 \; \text{EU/}\mu\text{g}$ 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.

Contact

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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.

Bio-Activity

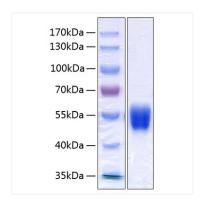
Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The IC50 value is approximately <0.4 nM.

Storage

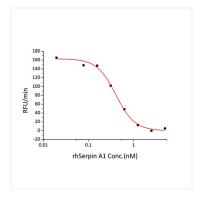
Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Serpin A1/Alpha-1antitrypsin Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50-60 kDa.



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