

Active 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;alpha1AT;MGC23330;MGC9222;PI;PI1;PRO2275;Serpina1

Product Information

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

Endotoxin

< 1.0 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

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

Basic Information

Description

Active 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 6xHis 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.

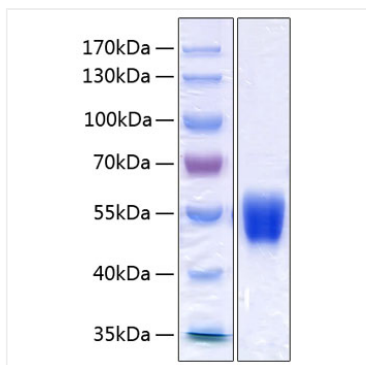
Storage

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.

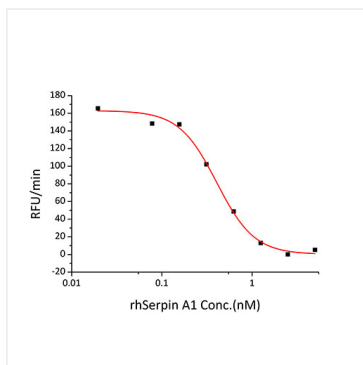
Contact

 | www.abclonal.com

Validation Data



Active Recombinant Human Serpin A1/Alpha-1-antitrypsin 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.