

# 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)-NH<sub>2</sub>. The IC<sub>50</sub> 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.

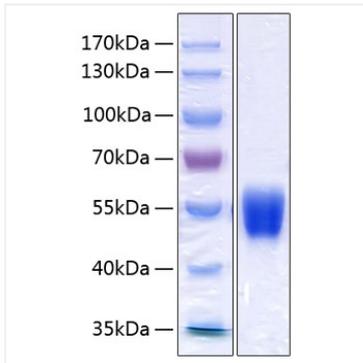
Avoid repeated freeze/thaw cycles.

## Contact

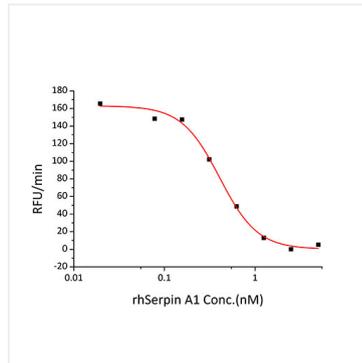
 | [www.abclonal.com](http://www.abclonal.com)

## Validation Data

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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)-NH<sub>2</sub>. The IC<sub>50</sub> value is approximately <0.4nM.