

## General Information

### Protein Construction

A DNA sequence encoding the human SERPINA3 (NP\_001076.2) (Met 1-Ala 423) was expressed, with a C-terminal polyhistidine tag.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH<sub>2</sub> (Anaspec, Catalog# 27114). The IC<sub>50</sub> value is < 5 nM.

### Purity

> 97 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Asn 26

### Molecular Mass

The recombinant human SERPINA3 consisting of

409 amino acids and has a calculated molecular mass of 46.5 kDa. As a result of different glycosylation, the apparent molecular mass of the recombinant protein is approximately 45 kDa and 55-70 kDa in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile 25mM HEPES, 0.15M NaCl, pH 7.8

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

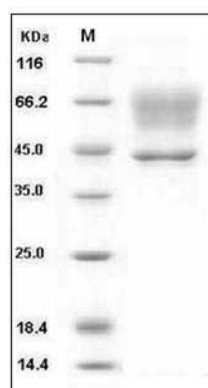
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human SerpinA3 / AACT Protein (His Tag) SDS-PAGE