

# Mouse Alpha 1 Antitrypsin / Serpin A1a recombinant protein



Catalog Number: 504513

## General Information

### Protein Construction

A DNA sequence encoding the mouse Serpina1a (XP\_003945711.1) (Met1-Lys413) was expressed with five amino acids (DDDDK) at the C-terminus.

### Organism

Mouse

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-Arg-Pro-Lys-Pro-Val-Glu-Nval-Trp-Arg-Lys (DNP)-NH<sub>2</sub>. The IC<sub>50</sub> value is < 15 nM.

### Purity

> 85 % 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

Glu 25

### Molecular Mass

The recombinant mouse Serpina1a comprises 395 amino acids and has a predicted molecular mass of 44.1 kDa. The apparent molecular mass of the protein is approximately 54 kDa in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile PBS, pH 7.4.

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

## Usage Guide

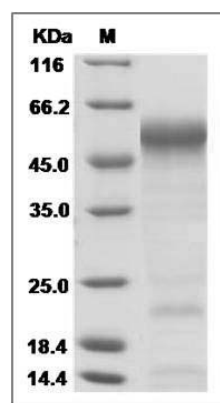
### Storage

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



Mouse Alpha 1 Antitrypsin / SerpinA1a Protein SDS-PAGE