

## Recombinant Mouse Serpinb1a Protein, Myc/DDK-tagged

**Cat. No.** Serpinb1a-5787M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length serine (or cysteine) peptidase inhibitor, clade B, member 1a (Serp <b>in</b> b1a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>Neutrophil serine protease inhibitor that plays an essential role in the regulation of the innate immune response, inflammation and cellular homeostasis. Acts primarily to protect the cell from proteases released in the cytoplasm during stress or infection. These proteases are important in killing microbes but when released from granules, these potent enzymes also destroy host proteins and contribute to mortality.</p> <p>Regulates the activity of the neutrophil proteases elastase, cathepsin G, proteinase-3, chymase, chymotrypsin, and kallikrein-3. Acts also as a potent intracellular inhibitor of granzyme H. During inflammation, limits the activity of inflammatory caspases CASP1 and CASP4 by suppressing their caspase-recruitment domain (CARD) oligomerization and enzymatic activation. In addition, promotes the proliferation of beta-cells when secreted.</p>
<b>Molecular Mass</b>	42.6 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

**Storage** Store at -80 centigrade after receiving vials.

**Concentration** >50 µg/mL as determined by microplate BCA method

**Storage Buffer** 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

**Gene Name** Serpinb1a serine (or cysteine) peptidase inhibitor, clade B, member 1a [ *Mus musculus* (house mouse) ]

**Official Symbol** [Serpib1a](#)

**Synonyms** Serpinb1a; serine (or cysteine) peptidase inhibitor, clade B, member 1a; E; L; EI; MN; EIA; ELA; LEI; M/N; PI2; ova; MNEI; M/NEI; ELANH2; AI325983; 1190005M04Rik; leukocyte elastase inhibitor A; ovalbumin; serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 1a; serine (or cysteine) proteinase inhibitor, clade B, member 1a; serine protease inhibitor EIA; serpin B1a

**Gene ID** [66222](#)

**mRNA Refseq** [NM\\_025429](#)

**Protein Refseq** [NP\\_079705](#)

**UniProt ID** [Q9D154](#)

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