Recombinant Mouse Serpinb1a Protein, Myc/DDK-tagged

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

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length serine (or cysteine) peptidase inhibitor, clade B, member 1a (Serpinb1a), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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. 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.
Molecular Mass	42.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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	Serpinb1a
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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