

Product datasheet for **TP505910**

Serpinb1a (NM_025429) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse serine (or cysteine) peptidase inhibitor, clade B, member 1a (Serpinb1a), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205910 protein sequence Red =Cloning site Green =Tags(s)

MEQLSSANTLFALELFQTLNESSPTGNIFFSPFSSSALAMVILGAKGSTAAQLSKTFHFDSVEDIHSRF
QSLNAEVSKRGASHTLKLANRLYGEKTYNFLPEYLASTQKMYGADLAPVDFLHASEDARKEINQVWKGQT
EGKIPPELLSVGVVDSMTKLVLVNIAIFKGMWEEKFMTEDTTDAFRLSKKDKTKVKMMYQKKKFPFGYIS
DLKCKVLEMPYQGGELSMVILLPKDIEDESTGLKKIEKQITLEKLEWTKRENLEFIDVHVKLPRFKIEE
SYTLNSNLGRLGVQDLFSSSKADLSGMSGSRDLFISKIVHKSFVEVNEEGTEAAAATGGIATFCMLLPEE
EFTVDHPFFIFIRHNPTSNVFLGRVCSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	42.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_079705
Locus ID:	66222
UniProt ID:	Q9D154



[View online »](#)

RefSeq Size:	1931
Cytogenetics:	13 13.75 cM
RefSeq ORF:	1140
Synonyms:	1190005M04Rik; AI325983; EI; EIA; ELANH2; LEI; M/NEI; MNEI; PI2
Summary:	<p>Neutrophil serine protease inhibitor that plays an essential role in the regulation of the innate immune response, inflammation and cellular homeostasis (PubMed:17664292, PubMed:21683252, PubMed:21248149, PubMed:30692621). Acts primarily to protect the cell from proteases released in the cytoplasm during stress or infection (PubMed:17664292). 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 (PubMed:12189154). During inflammation, limits the activity of inflammatory caspases CASP1 and CASP4 by suppressing their caspase-recruitment domain (CARD) oligomerization and enzymatic activation (PubMed:30692621). In addition, promotes the proliferation of beta-cells when secreted (PubMed:26701651).[UniProtKB/Swiss-Prot Function]</p>