

# Recombinant Mouse Serpina12, FLAG-tagged

**Cat. No.** Serpina12-2441M    **Lot. No.** (See product label)

## SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Recombinant MouseSerpina12 produced inHEK 293 cells. Mature mouse vaspin (aa 21-413) is fused at the N-terminus to a FLAG-tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>            | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>     | 21-413 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>       | Serpins are a group of proteins with similar structures that were first identified as a set of proteins able to inhibit proteases. The acronym serpin was originally coined because many serpins inhibit chymotrypsin-like serine proteases (serine protease inhibitors). The first members of the serpin superfamily to be extensively studied were the human plasma proteins antithrombin and antitrypsin, which play key roles in controlling blood coagulation and inflammation, respectively. Initially, research focused upon their role in human disease: antithrombin deficiency results in thrombosis and antitrypsin deficiency causes emphysema. |
| <b>Concentration</b>     | 0.5mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>            | ≥90% (SDS-PAGE).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Formulation</b>       | Liquid. 0.2µm-filtered solution in PBS, pH 7.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Endotoxin Content</b> | <0.1EU/g purified protein (LAL test).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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**Handling** After reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

**Storage And Stability** Working aliquots are stable for up to 3 months when stored at -20°C.

## GENE INFORMATION

**Gene Name** Serpina12 serine (or cysteine) peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 12 [ *Mus musculus* ]

**Synonyms** Serpina12; serine (or cysteine) peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 12; 4632419J12Rik

**Gene ID** 68054

**mRNA Refseq** NM\_026535

**Protein Refseq** NP\_080811

**UniProt ID** Q7TMF5

**Chromosome Location** 12 F1

**Function** molecular\_function; peptidase inhibitor activity; serine-type endopeptidase inhibitor activity

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