

# Active Recombinant Mouse Serine Protease Inhibitor, Kunitz Type 1, His-tagged

**Cat. No.** Spint1-405M    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b>    | Recombinantmouse Spint1 protein was expressed in Murine myeloma cellline, NS0-derived, with a C-terminal 10-His tag. Glu30-Glu443.                                                                                                                                                                                                               |
| <b>Species</b>             | Mouse                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>              | Mammalian Cells                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>       | 30-443 a.a.                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>         | The protein encodedby this gene is a member of the Kunitz family of serine protease inhibitors.The protein is a potent inhibitor specific for HGF activator and is thoughtto be involved in the regulation of the proteolytic activation of HGF ininjured tissues. Alternative splicing results in multiple variants encodingdifferent isoforms. |
| <b>Form</b>                | Lyophilized from a0.2 µm filtered solution in Tris.                                                                                                                                                                                                                                                                                              |
| <b>N-terminal Sequence</b> | Glu30                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Weight</b>    | 48 kDa                                                                                                                                                                                                                                                                                                                                           |
| <b>Activity</b>            | Measured by itsability to inhibit trypsin cleavage of a fluorogenic peptide substrate,Mc a-RPKPVE-Nval-WRK(Dnp)-NH2, The IC50 value is <1.5 nM, as measured under the described conditions. See Activity AssayProtocol.                                                                                                                          |

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|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin Level</b> | <1.0 EU per 1 µg of the protein by the LAL method.                                                                                                                                                 |
| <b>Purity</b>          | >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                        |
| <b>Reconstitution</b>  | Reconstitute at 100µg/mL in sterile, deionized water.                                                                                                                                              |
| <b>Storage</b>         | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after reconstitution. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Spint1 serine protease inhibitor, Kunitz type 1 [ <i>Mus musculus</i> ]                                                                                                                                                                                                                                                                                                                                                      |
| <b>Official Symbol</b> | Spint1                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>        | Spint1; serine protease inhibitor, Kunitz type 1; kunitz-type protease inhibitor 1; HAI 1; HAI; HAI-1; HAI1; Hepatocyte growth factor activator inhibitor type 1; Kunitz type protease inhibitor 1; Kunitz-type protease inhibitor 1; MANSC2; Serine peptidase inhibitor Kunitz type 1; SPINT1; SPIT1_HUMAN; OTTMUSP00000016930; OTTMUSP00000016931; OTTMUSP00000016932; hepatocyte growth factor activator inhibitor type 1 |
| <b>Gene ID</b>         | 20732                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>     | NM_016907                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>  | NP_058603                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>      | Q9R097                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|-------------------------------------|-------------------------------------------------------------------------------------|
| <b>Chromosome Location</b>          | 2                                                                                   |
| <b>Pathway</b>                      | Transcriptional misregulation in cancers                                            |
| <b>Function</b>                     | peptidase inhibitor activity; serine-type endopeptidase inhibitor activity          |
| <b>PDB rendering based on 1yc0.</b> |  |