

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

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Spint1 protein was expressed in Murine myeloma cell line, NS0-derived, with a C-terminal 10-His tag. Glu30-Glu443.
<b>Species</b>	Mouse
<b>Source</b>	Mammalian Cells
<b>Protein Length</b>	30-443 a.a.
<b>Description</b>	The protein encoded by 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 thought to be involved in the regulation of the proteolytic activation of HGF in injured tissues. Alternative splicing results in multiple variants encoding different isoforms.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in Tris.
<b>N-terminal Sequence</b>	Glu30
<b>Molecular Weight</b>	48 kDa
<b>Activity</b>	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mc a-RPKPVE-Nval-WRK(Dnp)-NH <sub>2</sub> , The IC <sub>50</sub> value is <1.5 nM, as measured under the described conditions. See Activity Assay Protocol.

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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

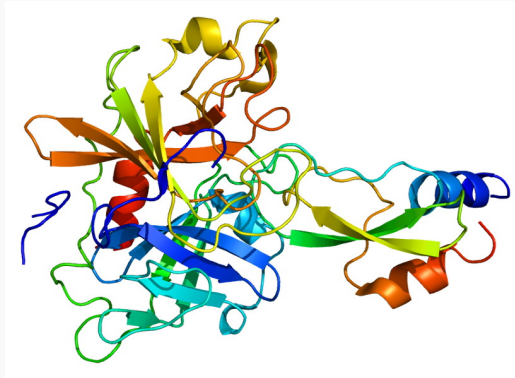
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<b>Chromosome Location</b>	2
<b>Pathway</b>	Transcriptional misregulation in cancers
<b>Function</b>	peptidase inhibitor activity; serine-type endopeptidase inhibitor activity

PDB rendering based on 1yc0.



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