

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

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

SPECIFICATION

Product Overview	Recombinantmouse Spint1 protein was expressed in Murine myeloma cellline, NS0-derived, with a C-terminal 10-His tag. Glu30-Glu443.
Species	Mouse
Source	Mammalian Cells
ProteinLength	30-443 a.a.
Description	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.
Form	Lyophilized from a0.2 µm filtered solution in Tris.
N-terminal Sequence	Glu30
Molecular Weight	48 kDa
Activity	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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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100µg/mL in sterile, deionized water.
Storage	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

Gene Name	Spint1 serine protease inhibitor, Kunitz type 1 [<i>Mus musculus</i>]
Official Symbol	Spint1
Synonyms	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
Gene ID	20732
mRNA Refseq	NM_016907
Protein Refseq	NP_058603
UniProt ID	Q9R097

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