

Recombinant Mouse Htra1 Protein, Myc/DDK-tagged

Cat. No. Htra1-3462M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length HtrA serine peptidase 1 (Htra1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
ProteinLength	1-480 aa
Description	Serine protease with a variety of targets, including extracellular matrix proteins such as fibronectin. HTRA1-generated fibronectin fragments further induce synovial cells to up-regulate MMP1 and MMP3 production. May also degrade proteoglycans, such as aggrecan, decorin and fibromodulin. Through cleavage of proteoglycans, may release soluble FGF-glycosaminoglycan complexes that promote the range and intensity of FGF signals in the extracellular space. Regulates the availability of insulin-like growth factors (IGFs) by cleaving IGF-binding proteins. Inhibits signaling mediated by TGF-beta family members. This activity requires the integrity of the catalytic site, but it is unclear whether it leads to the proteolytic degradation of TGF-beta proteins themselves or not. By acting on TGF-beta signaling, may regulate many physiological processes, including retinal angiogenesis and neuronal survival and maturation during development. Intracellularly, degrades TSC2, leading to the activation of TSC2 downstream targets.
Molecular Mass	51.2 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Htra1 HtrA serine peptidase 1 [Mus musculus (house mouse)]
Official Symbol	Htra1
Synonyms	HTRA1; HtrA serine peptidase 1; serine protease HTRA1; serine protease 11; protease, serine, 11 (Igf binding); high-temperature requirement A serine peptidase 1; insulin-like growth factor binding protein 5 protease; L56; HTRA; Prss11; RSPP11; AI429470
Gene ID	56213
mRNA Refseq	NM_019564
Protein Refseq	NP_062510
UniProt ID	Q9R118

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