

## Recombinant Mouse Htra1 Protein, Myc/DDK-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length HtrA serine peptidase 1 (Htra1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-480 aa
<b>Description</b>	<p>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.</p>
<b>Molecular Mass</b>	51.2 kDa

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

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Htra1 HtrA serine peptidase 1 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Htra1</a>
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">56213</a>
<b>mRNA Refseq</b>	<a href="#">NM_019564</a>
<b>Protein Refseq</b>	<a href="#">NP_062510</a>
<b>UniProt ID</b>	<a href="#">Q9R118</a>

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