

Recombinant Mouse HTRA1 Protein (141-480 aa), His-tagged

Cat. No. HTRA1-2578M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse HTRA1 Protein (141-480 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Signal Transduction. Protein Description: Partial.
Species	Mouse
Source	E.coli
ProteinLength	141-480 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.

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Form	Tris-based buffer, 50% glycerol
Molecular Mass	39.0 kDa
AA Sequence	KLRQPPVIVLQRGACGQGQEDPNSLRHKYNFIADVVEKIAPAVVHIELYRKLPFSKRE VPVASGSGFIVSEDGLIVTNAHVVTNKNRVKVELKNGATYEAKIKDVDEKADIALIKID HQGKLPVLLLGRSSELRPGEFVVAIGSPFSLQNTVTTGIVSTTQRGGKELGLRNSDM DYIQTDALINYGNSGGPLVNL DGEVIGINTLKVTAGISFAIPSDKIKKFLTESHDRQAKG KAVTKKKYIGIRMMSLTSSKAKELKDRHRDFPDVLSGAYIIEVIPDTPAEAGGLKEND VIISINGQSVVTANDVSDVIKKENTLNMVVRRGNEDIVITVIPEEIDP
Purity	> 85% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name	Htra1 HtrA serine peptidase 1 [<i>Mus musculus</i>]
Official Symbol	HTRA1
Synonyms	HTRA1; HtrA serine peptidase 1; serine protease HTRA1; serine protease 11; L56;

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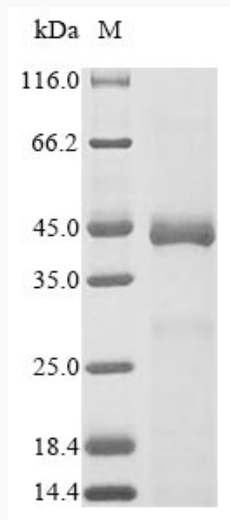
HTRA; Prss11; RSPP11; AI429470;

Gene ID 56213

mRNA Refseq NM_019564

Protein Refseq NP_062510

UniProt ID Q9R118



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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