

## 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Form</b>	Tris-based buffer,50% glycerol
<b>Molecular Mass</b>	39.0 kDa
<b>AA Sequence</b>	KLRQPPVIVLQRGACGQGQEDPNSLRHKYNFIADVVEKIAPAVVHIELYRKLPFKRE VPVASGSGFIVSEDGLIVTNAHVVTNKNRVKVELKNGATYEAKIKDVDEKADIALIKID HQGKLPVLLLGRSSELRPGEFVVAIGSPFSLQNTVTTGIVSTTQRGGKELGLRNSDM DYIQTDAIINYGNSSGGLVNL DGEVIGINTLVKVTAGISFAIPSDKIKKFLTESHDRQAKG KAVTKKKYIGIRMMSLTSSKAKELKDRHRDFPDVLSGAYIIEVIPDTPAEAGGLKEND VIISINGQSVVTANDVSDVIKKENTLNMVVRRGNEDIVITVIPEEIDP
<b>Purity</b>	> 85% as determined by SDS-PAGE.
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
<b>Storage</b>	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.
<b>Concentration</b>	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

## GENE INFORMATION

<b>Gene Name</b>	Htra1 HtrA serine peptidase 1 [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	HTRA1
<b>Synonyms</b>	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

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