



# Recombinant Mouse Serine protease HTRA1 (Htra1), partial

<b>Product Code</b>	CSB-EP879501MO1
<b>Relevance</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>Abbreviation</b>	Recombinant Mouse Htra1 protein, partial
<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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9R118
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	≥ 85% as determined by SDS-PAGE.
<b>Sequence</b>	<p>KLRQPPVIVLQRGACGQGQEDPNSLRHKYNFIAADVVEKIAPAVVHIELYRKLKLPF  SKREVPVASGSGFIVSEGLIVTNAHVVTNKNRVKVELKNGATYEAKIKDVDEK  ADIALIKIDHQGKLPVLLLGRSSELRPGEFVVAIGSPFSLQNTVTTGIVSTTQRG  GKELGLRNSDMDYIQTDIINYGNSGGPLVNL DGEVIGINTLKV TAGISFAIPSD  KIKKFLTESHDRQAKGKAVTKKKYIGIRMMSLTSSKAKELKDRHRDFPDVLSGA  YIIEVIPDTPAEAGGLKENDVIISINGQSVVTANDVSDVIKKENTLNMVVRRGNE  DIVITVIPEEIDP</p>
<b>Research Area</b>	Signal Transduction
<b>Source</b>	E.coli
<b>Target Names</b>	Htra1
<b>Protein Names</b>	High-temperature requirement A serine peptidase 1 (Serine protease 11) (Htra) (Prss11)
<b>Expression Region</b>	141-480aa



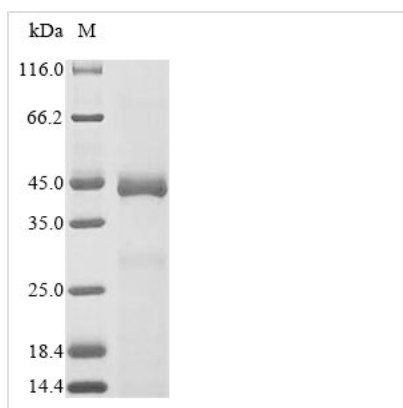
**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

**Tag Info** C-terminal 6xHis-tagged

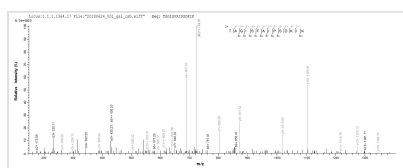
**Mol. Weight** 39.0 kDa

**Protein Length** Partial

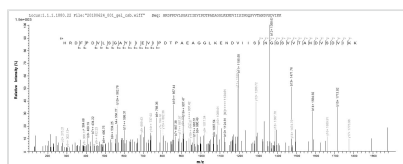
**Image**



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP879501MO1 could indicate that this peptide derived from E.coli-expressed Mus musculus (Mouse) Htra1.



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**Reconstitution** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life** 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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.