

## HTRA1 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	Htra;Serine protease HTRA1;Htra1;Serine protease 11;High-temperature requirement A serine peptidase 1;Prss11
Protein Construction:	141-480 aa
Species:	Mouse
Expression Host:	E. coli
Accession:	Q9R118
Molecular Weight:	39.0 kDa (predicted)
AA Sequence:	KLRQPPVIVLQRGACGQGQEDPNLSLRHKYNFIADVVEKIAPAVVHIELYRKLPFKREVPVASGSGFVISEDGLI VTNAHVVTNKNRVKVELKNGATYEAKIKDVDEKADIALIKIDHQGKLPVLLLGRSSELRPGEFVVAIGSPFSLQ NTVTTGIVSTTQRGGKELGLRNSDMDYIQTDAIINYGNSSGGLVNLGDGEVIGINTLKVTAGISFAIPSDKIKKFLT ESHDRQAKGKAVTKKKYIGIRMMSLTSSKAKELKDRHRDFPDVLSGAYIIEVIPDTPAEAGGLKENDVIISINGQ SVVTANDVSDVIKKENTLNMVRRGNEDIVITVIPEEIDP

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

### Preparation and Storage

#### Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

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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