Active Recombinant Human HTRA1, His-tagged

Cat. No. HTRA1-2891H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HTRA1(Gly156Pro480) fused with 6*his tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	156-480 a.a.
Description	HTRA1 is a member of the mammalian HTRA (high temperature requirement A) serine protease family. The E. coli HTRA homolog functions as a chaperoneproteaseand is essential for bacterial survival at temperatures above 42 °C. Among the four mammalian HTRA proteins, HTRA1, 3and 4are secreted while HTRA2 islocalized in mitochondria. HTRA1 contains an Nterminalinsulin likegrowth factor binding protein (IGFBP) domain, a Kazaltypetrypsin inhibitor motif, and C terminaltrypsin likeprotease and PDZ domains. It is involved in several pathologies including Alzheimer's disease, rheumatoid arthritis, osteoarthritis andagerelatedmacular degeneration, although the mechanisms by which HTRA1 exerts its effects are not clear. HTRA1 also has properties of a tumor suppressorprotein, which makes it a target for cancer therapy. In addition HTRA1 is known to regulate the TGFβsignaling pathway and bone mineralization.
NterminalSequenceAnalysis	Met

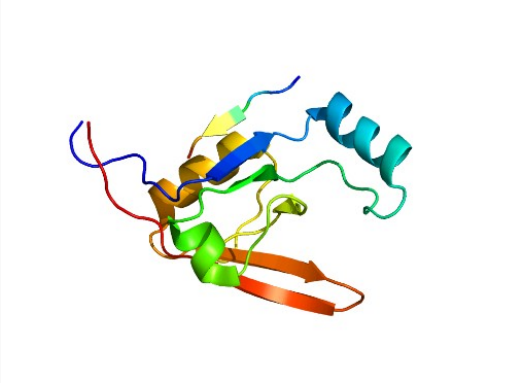
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

MolecularMass	36kDa
Activity	Measured by its ability to cleave βcasein.>95% of βCaseinis cleaved by Recombinant Human HTRA1/PRSS11.
Endotoxin Level	<1.0 EU per 1 μg of the protein by the LAL method.
Purity	>90%, as determined by SDS-PAGE.
Formulation	Supplied as a 0.2 μm filtered solution in MES and NaCl.
Stability& Storage	Use a manual defrost freezer and avoid repeated freeze-thawcycles.6 months from date of receipt, 20to 70°C as supplied.3 months, 20to 70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	HTRA1 HtrA serine peptidase 1 [Homo sapiens]
Official Symbol	HTRA1
Synonyms	HTRA1; HtrA serine peptidase 1; L56; HtrA; ARMD7; ORF480; PRSS11; serine protease HTRA1; IGFBP5-protease; protease, serine, 11 (IGF binding); HTRA; Serine protease 11; EC 3.4.21.-
Gene ID	5654
mRNA Refseq	NM_002775
Protein Refseq	NP_002766

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

MIM	602194
UniProt ID	Q92743
Chromosome Location	10q26.3
Function	insulin-like growth factor binding; peptidase activity; serine-type endopeptidase activity
Rendering based on PDB2JOA.	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA