

Active Recombinant Full Length Human HTRA1 Protein, C-Flag-tagged

Cat. No. HTRA1-19HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HTRA1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a member of the trypsin family of serine proteases. This protein is a secreted enzyme that is proposed to regulate the availability of insulin-like growth factors (IGFs) by cleaving IGF-binding proteins. It has also been suggested to be a regulator of cell growth. Variations in the promoter region of this gene are the cause of susceptibility to age-related macular degeneration type 7.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Protein degradation enzyme Enzyme activity
Molecular Mass	49 kDa
AA Sequence	MQIPRAALLPLLLLLLAAPASAQLSRAGRSAPLAAGCPDRCEPARCPPQPEHCEGG RARDACGCCCEVCG APEGAACGLQEGPCGEGLCQCVVPFGVPASATVRRRAQAGLC VCASSEPVCGSDANTYANLCQLRAASRR SERLHRPPVIVLQRGACGQGQEDPNSL RHKYNFIADVVEKIAPAVVHIELFRKLPFSKREVPVASGSGF IVSEDGLIVTNAHVVTN

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KHRVKVELKNGATYEAKIKDVDEKADIALIKIDHQGKLPVLLLGRSSEL RPG EFVVAIG
 SPFSLQNTVTTGIVSTTQRGGKELGLRNSDMDYIQTDAIINYGNSSGGLVNL DGEVIG
 INTL KVTAGISFAIPSDKIKKFLTESHDRQAKGKAITKKKYIGIRMMSLTSSKAKELKDR
 HRDFPDVISGAYI IEVIPDTPAEAGGLKENDVIISINGQSVVSANDVSDVIKRESTLNM
 VVRRGNEDIMITVIPEEIDP

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease, Secreted Protein
Full Length	Full L.

GENE INFORMATION

Gene Name	HTRA1 HtrA serine peptidase 1 [Homo sapiens (human)]
Official Symbol	HTRA1
Synonyms	L56; HtrA; ARMD7; ORF480; PRSS11; CARASIL; CADASIL2
Gene ID	5654

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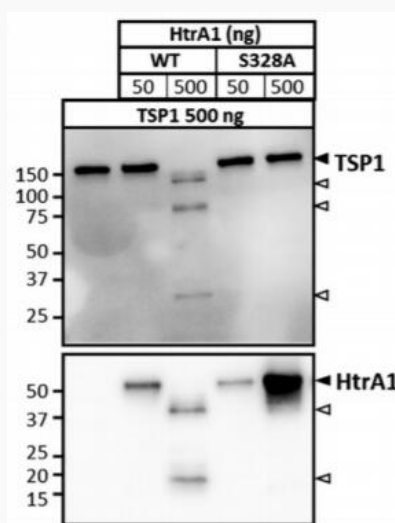
 45-1 Ramsey Road, Shirley, NY 11967, USA

mRNA Refseq [NM_002775.5](#)

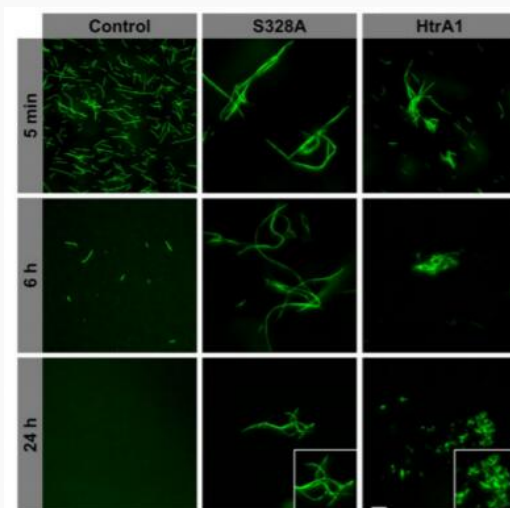
Protein Refseq [NP_002766.1](#)

MIM [602194](#)

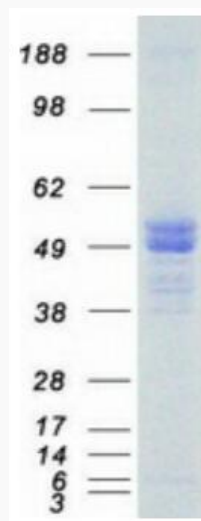
UniProt ID [Q92743](#)



An in vitro cleavage assay shows TSP1 is a direct substrate of HtrA1. TSP1 (500 ng) were incubated with the indicated amount of active HtrA1WT (WT) or inactive HtrA1S328A (S328A). The cleavage events were analyzed by immunoblotting. The filled triangle is the full-length form of TSP1 and HtrA1. The empty triangle is proteolysis products. TSP1 was probed using an antibody specific to the N-terminal domain. The molecular weight (kDa) reference is indicated in the left side of the image.



HtrA1 degrades preformed microtubules and avoids polymerization in vitro. Fluorescently labeled microtubules were polymerized in vitro and incubated with S328A HtrA1 and HtrA1 (right). Images were acquired at 5 minutes, 6 hours, and 24 hours after adding HtrA1.



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Coomassie blue staining of purified HTRA1 protein.

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