

Product datasheet for TP322362

HTRA1 (NM_002775) Human Recombinant Protein

Product data:

Storage:

Product Type: Recombinant Proteins Description: Recombinant protein of human HtrA serine peptidase 1 (HTRA1), 20 µg Species: Human HEK293T **Expression Host: Expression cDNA Clone** >Peptide sequence encoded by RC222362 or AA Sequence: Blue=ORF Red=Cloning site Green=Tag(s) MQIPRAALLPLLLLLLAAPASAQLSRAGRSAPLAAGCPDRCEPARCPPQPEHCEGGRARDACGCCEVCG APEGAACGLQEGPCGEGLQCVVPFGVPASATVRRRAQAGLCVCASSEPVCGSDANTYANLCQLRAASRR SERLHRPPVIVLQRGACGQGQEDPNSLRHKYNFIADVVEKIAPAVVHIELFRKLPFSKREVPVASGSGF IVSEDGLIVTNAHVVTNKHRVKVELKNGATYEAKIKDVDEKADIALIKIDHQGKLPVLLLGRSSELRPG EFVVAIGSPFSLQNTVTTGIVSTTQRGGKELGLRNSDMDYIQTDAIINYGNSGGPLVNLDGEVIGINTL KVTAGISFAIPSDKIKKFLTESHDRQAKGKAITKKKYIGIRMMSLTSSKAKELKDRHRDFPDVISGAYI IEVIPDTPAEAGGLKENDVIISINGQSVVSANDVSDVIKRESTLNMVVRRGNEDIMITVIPEEIDP Recombinant protein using RC222362 also available, TP322362 C-Myc/DDK Tag: Predicted MW: 49 kDa **Concentration:** >0.1 µg/µL as determined by microplate BCA method **Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol **Bioactivity:** Protein degradation enzyme (PMID: 29269042) Enzyme activity (PMID: 29572155) Recombinant protein was captured through anti-DDK affinity column followed by **Preparation:** conventional chromatography steps. For testing in cell culture applications, please filter before use. Note that you may experience Note: some loss of protein during the filtration process.

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Store at -80°C.

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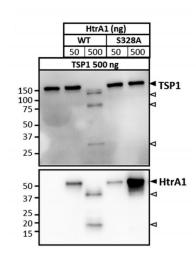
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

	HTRA1 (NM_002775) Human Recombinant Protein – TP322362
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP 002766</u>
Locus ID:	5654
UniProt ID:	<u>Q92743</u>
RefSeq Size:	2133
Cytogenetics:	10q26.13
RefSeq ORF:	1440
Synonyms:	ARMD7; CADASIL2; CARASIL; HtrA; L56; ORF480; PRSS11
Summary:	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. [provided by RefSeq, Jul 2008]
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Protein Families:

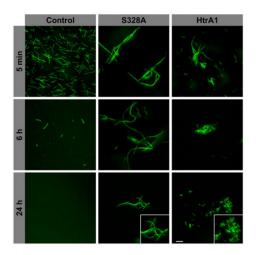
Druggable Genome, Protease, Secreted Protein

Product images:



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) (OriGene TP322362) or inactive HtrA1S328A (S328A) (OriGene [TP700208]). 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. Figure cited from Matrix Biol, PMID: 29572155

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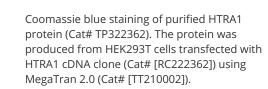
188 98

62

49

38

HtrA1 degrades preformed microtubules and avoids polymerization in vitro. Fluorescently labeled microtubules were polymerized in vitro and incubated with S328A HtrA1 (OriGene, [TP700208]) (center) and HtrA1 (OriGene, TP322362) (right). Images were acquired at 5 minutes, 6 hours, and 24 hours after adding HtrA1. Scale bar, 10 um. Figure cited from EBioMedicine, PMID: 29269042



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