

Product datasheet for **TP700208**

HTRA1 (NM_002775) Mutant (S328A) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human HtrA serine peptidase 1 (HTRA1), S328A mutant, 20 ug
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	A DNA sequence from TrueORF clone, RC222362 with a T982G mutation, encoding the mutant form (S328A) of human HTRA
Tag:	C-Myc/DDK
Predicted MW:	49 kDa
Concentration:	>50 ug/mL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol
Bioactivity:	Protein degradation enzyme (PMID: 29269042) Enzyme activity (PMID: 29572155)
Storage:	Store at -80°C.
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:	NP_002766
Locus ID:	5654
UniProt ID:	Q92743
RefSeq Size:	2133
Cytogenetics:	10q26.13
RefSeq ORF:	1440
Synonyms:	ARMD7; CADASIL2; CARASIL; HtrA; L56; ORF480; PRSS11



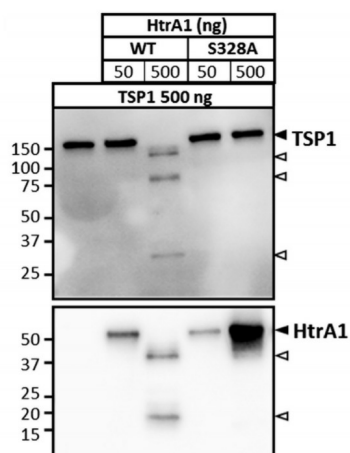
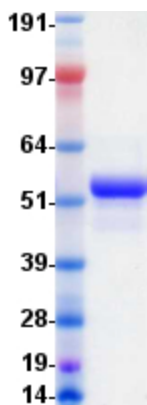
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Summary:

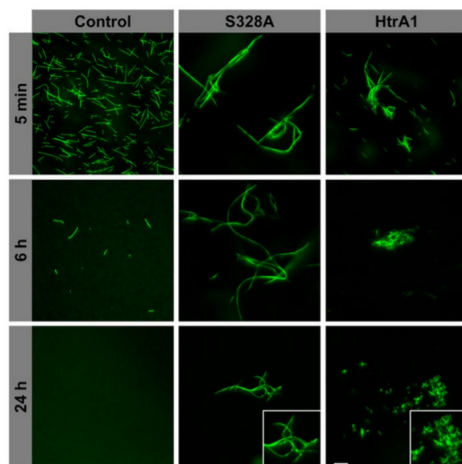
This gene encodes a member of the trypsin family of serine proteases. This protein is a secreted enzyme that is proposed to regulate the availability of insulin-like growth factors (IGFs) by cleaving IGF-binding proteins. It has also been suggested to be a regulator of cell growth. Variations in the promoter region of this gene are the cause of susceptibility to age-related macular degeneration type 7. [provided by RefSeq, Jul 2008]

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. Filled triangle is the full-length form of TSP1 and HtrA1. 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



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 μ m. Figure cited from EBioMedicine, PMID: 29269042