

Recombinant Human HtrA Serine Peptidase 2, His-tagged

Cat. No. HTA2-56H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HtrA2 amino acids 134-458 His-Tag fusion protein produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain having a molecular mass of 32 kDa. The HtrA2 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
ProteinLength	134-458 a.a.
Description	HtrA2 also called Omi is a mammalian serine protease at high temperatures and has a chaperone activity at low temperature. The full-length HtrA2 is synthesized as a precursor protein and then targeted to the mitochondria where it is matured by the removal of N-terminal 133 residues. Mature HtrA2 consists of a putative transmembrane domain; an inhibitor of apoptosis protein (IAP)-binding motif; a single C-terminal PDZ domain that mediates protein-protein interactions. Recently, HtrA2 has known to contribute both to caspase-dependent and caspase-independent cell death.
Amino Acid Sequence	MAVPSPPPAS PPSQYNFIAD VVEKTAPAVV YIEILDRHPF LGREVPISNG SGF VVA ADGL IVTNAHVVD RRRVRVRLLS GDTYEAVVTA VDPVADIATL RIQTKEPLPT L PLGR SADVR QGEFVVAMGS PFALQNTITS GIVSSAQRPA RDLGLPQTNV EY IQ TD AAID FGNAGGPLVN LDGEVIGVNT MKVTAGISFA IPSDRLREFL HRG EK KNSSS GISGSQRRYI GVMMLTLSPS ILAELQLREP SFPDVQHGVL IHK VILGSPA

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	HRA GLRPGDV ILAIGE QMVQ NAEDVYEAVR TQSQLAVQIR RGR ETLTLYV TP EVTEGSHH HHHH.
Physical Appearance	Sterile filtered colorless solution.
Purity	Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein (0.5 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 50 mM NaCl, 1 mM DTT, and 20% Glycerol.
Stability	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

GENE INFORMATION

Gene Name	HTRA2 HtrA serine peptidase 2 [Homo sapiens]
Synonyms	HTRA2 ; HtrA serine peptidase 2; OMI; PARK13; PRSS25; protease, serine, 25; Serine protease HTRA2, mitochondrial; High temperature requirement protein A2; HtrA2; Omi stress-regulated endoprotease; Serine proteinase OMI; Serine protease 25; EC 3.4.21.108; HtrA-like serine protease
Gene ID	27429
mRNA Refseq	NM_013247
Protein Refseq	NP_037379
MIM	606441

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UniProt ID	O43464
Chromosome Location	2p12
Pathway	Parkinson"s disease
Function	peptidase activity; serine-type endopeptidase activity; unfolded protein binding
PDB rendering based on 1lcy.	