
Product Data Sheet

Product Name: HTRA2 Human
 Cat. No.: GP21816
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Serine protease HTRA2 mitochondrial; EC 3.4.21.108; High temperature requirement protein A2; HtrA2; Omi stress-regulated endoprotease; Serine proteinase OMI; Serine protease 25; OMI; PARK13; PRSS25.		
Amino Acid Sequence	MAVPSPPPAS PPSQYNFIAD VVEKTAPAVV YIEILDRHPF LGREVPISNG SGFVVAADGL IVTNAHVVD RRRVRVRLLS GDTYEAVVTA VDPVADIATL RIQTKEPLPT LPLGRSADVR QGEFVVAMGS PFALQNTITS GIVSSAQRPA RDLGLPQTNV EYIQTDAID FGNAGGPLVN LDGEVIGVNT MKVTAGISFA IPSDRLREFL HRGEKKNSSS GISGSQRRYI GVMMLTSPS ILAELQLREP SFPDVQHGVL IHKVILGSPA HRAGLRPGDV ILAIGE QMVQ NAEDVYEA VR TQSQLAVQIR RGRETLYV TPEVTEGSHH HHHH.		
Formulation	The protein (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 50mM NaCl, 1mM DTT, and 20% Glycerol.		

Introduction

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.

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%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

HtrA2 Human Recombinant amino acids 134-458 His-Tag fusion protein produced in E.Coli is a single, non-glycosylated polypeptide chain having a molecular mass of 36kDa. The HtrA2 is purified by proprietary chromatographic techniques.

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