

Recombinant human HTRA2/OMI (S306A) protein

Catalog Number: HTR0501

PRODUCT INFORMATION

Expression system

E.coli

Domain

134-458aa

UniProt No.

O43464

NCBI Accession No.

NP_037379.1

Alternative Names

HtrA serine peptidase 2, High temperature requirement protein A2, HtrA2, Omi stress-regulated endoprotease, Serine protease 25, Serine proteinase OMI, PRSS25, OMI, PARK13

PRODUCT SPECIFICATION

Molecular Weight

36 kDa (334aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

HtrA2/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

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and caspase-independent cell death. Mature form of HtrA2/Omi (residues 134-458) was overexpressed in *E. coli*, and purified by conventional column chromatography techniques.

Amino acid Sequence

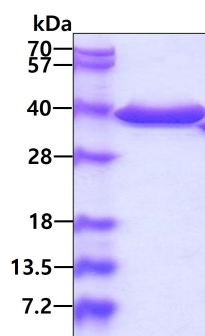
MAVPSPPPAS PRSQYNFIAD VVEKTAPAVV YIELDRHPF LGREVPISNG SGFVVAADGL IVTNAHVAD RRRVVRLLS
GDTYEAVVTA VDPVADIATL RIQTKEPLPT LPLGRSADVR QGEFVVAMGS PFALQNTITS GIVSSAQRPA RDLGLPQTNV
EYIQTDAID FGNAGGPLVN LDGEVIGVNT MKVTAGISFA IPSDRLREFL HRGEKKNSSS GISGSQRRYI GVMMLTLSPS
ILAEQLREP SFPDVQHGVL IHKVILGSPA HRAGLRPGDV ILAIGEQMVQ NAEDVYEAVR TQSQLAVQIR RGRETLLTYV
TPEVTE<GSHH HHHH>

General References

- Savopoulos JW., et al., (2000) *Protein Expr. Purif.* 19, 227-34
- Gray CW, et al., (2000) *Eur. J. Biochem.* 267, 5699-710
- Martins LM, et al., (2002) *J. Biol. Chem.* 277, 439-44
- Van Loo G, et al., (2002) *Cell Death Differ.* 9, 20-60

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.