HTRA2/OMI Protein, Human (HEK293, His)

Cat. No.:	HY-P70204
Synonyms:	rHuSerine protease HTRA2/HTRA2, His; Serine protease HTRA2; mitochondrial; High temperature requirement protein A2; HtrA2; Omi stress-regulated endoprotease; Serine protease 25; Serine proteinase OMI; HTRA2; OMI; PRSS25
Species:	Human
Source:	HEK293
Accession:	O43464 (A134-E458)
Gene ID:	27429
Molecular Weight:	39-43 kDa

PROPERTIES

AA Sequence	A V P S P P P A S P R S Q Y N F I A D V V E K T A P A V V Y I E I L D R H P F L G R E V P I S N G S G F V V A A D G L I V T N A H V V A D R R R V R V R L L S G D T Y E A V V T A V D P V A D I A T L R I Q T K E P L P T L P L G R S A D V R Q G E F V V A M G S P F A L Q N T I T S G I V S S A Q R P A R D L G L P Q T N V E Y I Q T D A A I D F G N S G G P L V N L D G E V I G V N T M K V T A G I S F A I P S D R L R E F L H R G E K K N S S S G I S G S Q R R Y I G V M M L T L S P S I L A E L Q L R E P S F P D V Q H G V L I H K V I L G S P A H R A G L R P G D V I L A I G E Q M V Q N A E D V Y E A V R T Q S Q L A V Q I R R G R E T L T L Y V T P E V T E
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris, 150 mM NaCl, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	HTRA2/OMI, a serine protease, exhibits proteolytic activity against a non-specific substrate, beta-casein. It plays a pivotal role in cell death induction through multiple mechanisms. One mechanism involves direct binding to and inhibition of BIRC

proteins (inhibitor of apoptosis proteins, IAPs), leading to heightened caspase activity. Alternatively, HTRA2/OMI can induce cell death through a BIRC inhibition-independent, caspase-independent pathway, relying on its serine protease activity. Furthermore, during apoptosis, it cleaves THAP5, promoting its degradation. Notably, isoform 2 appears to lack proteolytic activity.

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