

HTRA2/OMI Protein, Human (His)

Cat. No.:	HY-P74876
Synonyms:	Serine protease HTRA2; Serine proteinase OMI; OMI; PRSS25
Species:	Human
Source:	E. coli
Accession:	O43464 (A134-E458)
Gene ID:	27429
Molecular Weight:	Approximately 36.5 kDa

PROPERTIES

Biological Activity	Protease activity demonstrated by HtrA2 cleavage of bovine β -casein. Incubation of β -casein at 0.2 mg/mL with human HTRA-2 at 0.02 mg/mL (ratio of 10:1) for 60 minutes at 45 \times in 50 mM Tris, pH 8.0, which results in >95% cleavage of β -casein, as revealed b
Appearance	Solution.
Formulation	Supplied as a 0.2 μ m filtered solution of 50 mM Tris, 0.3M NaCl, 1 mM DTT, 20% Glycerol, pH 7.8.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80 $^{\circ}$ C for 1 year. It is stable at -20 $^{\circ}$ C for 3 months after opening. It is recommended to freeze aliquots at -80 $^{\circ}$ 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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Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA