

Datasheet for ABIN7196123 **HTRA2 Protein (His tag)**

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	HTRA2
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This HTRA2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human HtrA2/Omi Protein (His Tag)(Active)
Sequence:	Ala 134-Glu 458
Characteristics:	A DNA sequence encoding the mature form of human HTRA2 (O43464-1) (Ala 134-Glu 458) was expressed, with a polyhistide tag at the C-terminus.
Purity:	> 87 % as determined by reducing SDS-PAGE.
Biological Activity Comment:	Protease activity demonstrated by HtrA2 cleavage of bovine β -casein (Sigma, Catalog # C-6905). Incubation of β -casein at 0.2 mg/mL with Recombinant Human HTRA-2 at 0.02 mg/mL (ratio of 10:1) for 60 minutes at 45°C in 50 mM Tris, pH 8.0, which results in >95% cleavage of β -casein, as revealed by SDS-PAGE.

Target Details

Target:	HTRA2
---------	-------

Target Details

Alternative Name: HtrA2/Omi ([HTRA2 Products](#))

Background: Serine protease HTRA2, also known as high temperature requirement protein A2, Omi stress-regulated endoprotease, Serine protease 25, Serine proteinase OMI and HTRA2, is a single-pass membrane protein which belongs to the peptidase S1B family. HTRA2 contains one PDZ (DHR) domain. HTRA2 is a serine protease that shows proteolytic activity against a non-specific substrate beta-casein. It promotes or induces cell death either by direct binding to and inhibition of BIRC proteins (also called inhibitor of apoptosis proteins, IAPs), leading to an increase in caspase activity, or by a BIRC inhibition-independent, caspase-independent and serine protease activity-dependent mechanism. HTRA2 cleaves THAP5 and promotes its degradation during apoptosis. Isoform 2 of HTRA2 seems to be proteolytically inactive. Defects in HTRA2 are the cause of Parkinson disease type 13 (PARK13) which is a complex neurodegenerative disorder characterized by bradykinesia, resting tremor, muscular rigidity and postural instability, as well as by a clinically significant response to treatment with levodopa. Synonym: Serine protease HTRA2; mitochondrial;High temperature requirement protein A2;HtrA2;Omi stress-regulated endoprotease;Serine protease 25;Serine proteinase OMI;HTRA2;OMI; PRSS25

Pathways: [Positive Regulation of Endopeptidase Activity](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile 50 mM Tris, 0.3M NaCl, 1 mM DTT, 20 % Glycerol, pH 7.8

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.