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Datasheet for ABIN3092982

## HTRA1 Protein (AA 23-480) (His tag)

### 1 Image

#### Overview

Quantity:	1 mg
Target:	HTRA1
Protein Characteristics:	AA 23-480
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HTRA1 protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)

#### Product Details

Sequence: QLSRAGRSAP LAAGCPDRCE PARCPPQPEH CEGGRARDAC GCCEVCGAPE GAACGLQEGP  
 CGEGLQCVVP FGVPASATVR RRAQAGLCVC ASSEPVC GSD ANTYANLCQL RAASRRSERL  
 HRPPVIVLQR GACGQGQEDP NSLRHKY NFI ADVVEKIAPA VVHIELFRKL PFSKREVPVA  
 SGSGFIVSED GLIVTNAHVV TNKHRVKVEL KNGATYEAKI KDVDEKADIA LIKIDHQGKL  
 PVLLLGRSSE LRPGEFVVAI GSPFSLQNTV TTGIVSTTQR G GKELGLRNS DMDYIQTDAI  
 INYGNSGGPL VNLDGEVIGI NTLKVTAGIS FAIPSDKIKK FLTESHDRQA KGKAITKKKY  
 IGIRMMSLTS SKAKELKDRH RDFPDVISGA YIEVIPDTP AEAGGLKEND VIISINGQSV  
 VSANDVSDVI KRESTLNMVV RRG NEDIMIT VIPEEIDP

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
  - Human HTRA1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process

## Product Details

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to ensure crystallization grade.

- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

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Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

## Target Details

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Target:	HTRA1
Alternative Name:	HTRA1 ( <a href="#">HTRA1 Products</a> )

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## Target Details

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**Background:** Serine protease with a variety of targets, including extracellular matrix proteins such as fibronectin. HTRA1-generated fibronectin fragments further induce synovial cells to up-regulate MMP1 and MMP3 production. May also degrade proteoglycans, such as aggrecan, decorin and fibromodulin. Through cleavage of proteoglycans, may release soluble FGF-glycosaminoglycan complexes that promote the range and intensity of FGF signals in the extracellular space. Regulates the availability of insulin-like growth factors (IGFs) by cleaving IGF-binding proteins. Inhibits signaling mediated by TGF-beta family members. This activity requires the integrity of the catalytic site, although it is unclear whether TGF-beta proteins are themselves degraded. By acting on TGF-beta signaling, may regulate many physiological processes, including retinal angiogenesis and neuronal survival and maturation during development. Intracellularly, degrades TSC2, leading to the activation of TSC2 downstream targets. {ECO:0000269|PubMed:16377621, ECO:0000269|PubMed:20671064, ECO:0000269|PubMed:9852107}.

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**Molecular Weight:** 50.0 kDa Including tag.

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**UniProt:** [Q92743](#)

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**Pathways:** [Growth Factor Binding](#)

## Application Details

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**Application Notes:** In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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**Comment:** In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Buffer:** 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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## Handling

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Storage Comment: Store at -80°C.

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Expiry Date: Unlimited (if stored properly)

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## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process