

## HtrA Protein

Recombinant bacterial protein expressed in E. coli cells

**Catalog # H531-30CH**

Lot # Z1336-3

### Product Description

Recombinant streptococcus HtrA (33-393) protein was expressed in bacterial cells using an N-terminal His-tag. The gene is cloned from bacterial strain ATCC 700669 and the protein accession number is [B8ZQD0](#).

### Gene Aliases

SPN23F22720

### Formulation

Recombinant protein stored in 50mM Tris-HCl, pH 8.0, 300mM NaCl, 150mM imidazole and 10% glycerol.

### Storage and Stability

Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

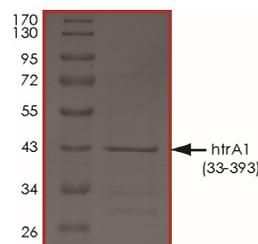
### Scientific Background

HtrA (also designated as DegP) is a trypsin-like serine protease which contains PDZ domain and involves in heat-shock response, chaperone function, and apoptosis (1). HtrA is an error sensor that specifically represses genetic competence when the overall level of biosynthetic errors in cellular proteins is low (2).

### References

1. Ge X. et.al: DegP primarily functions as a protease for the biogenesis of  $\beta$ -barrel outer membrane proteins in the Gram-negative bacterium Escherichia coli. FEBS J. 2013 Dec 26. doi: 10.1111/febs.12701.
2. Cassone M. et.al: The HtrA protease from Streptococcus pneumoniae digests both denatured proteins and the competence-stimulating peptide. J Biol Chem. 2012 Nov 9;287(46):38449-59.

### Purity



The purity of HtrA was determined to be **>85%** by densitometry. Approx. MW **41 kDa**.

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Catalog #	H531-30CH
Lot #	Z1336-3
Purity	>85%
Concentration	0.1 µg/µl
Stability	1yr at -70°C from date of shipment
Storage & Shipping	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on dry ice.

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