

DegP Protein, E. coli, Recombinant (His)

General Information

Synonyms:	Heat shock protein DegP; htrA; Periplasmic serine endoprotease DegP; degP; Protease Do; ptd
Protein Construction:	27-474 aa
Species:	E. coli
Expression Host:	P. pastoris (Yeast)
Accession:	P0C0V0
Molecular Weight:	48.8 kDa (predicted)
AA Sequence:	AETSSATTAQQMPSLAPMLEKVMPSVVSINVEGSTTVNTPRMPRNFQQFFGDDSPFCQEGSPFQSSPFCQG GQGGNGGGGQQQKFMALGSGVIIDADKGYVVTNNHVVDNATVIKVLQSDGRKFDKAMVKGDPKPRSDIALIQIQ NPKNLTAIKMADSDALRVGDYTVAGNPFGLGETVTSIVSALGRSGLNAENYENFIQTDAAINRGNSGGALV NLNGELIGINTAILAPDGGNIGIGFAIPSNMVKNLTSQMVEYGQVKRGELGIMGTELNSELAKAMKVDAQRGA FVSQVLPNSSAAKAGIKAGDVITSLNGKPISSFAALRAQVGTMPVGSKLTGLLRDQVNVNLELQSSQN QVDSSSIFNGIEGAEMSNKGDQGVVNNVKTGPAAQIGLKKGDVIIGANQQAVKNIAELRKVLDSKPSVL ALNIQRGDSTIYLLMQ

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

DegP acts as a chaperone at low temperatures but switches to a peptidase (heat shock protein) at higher temperatures. Degrades transiently denatured and unfolded or misfolded proteins which accumulate in the periplasm following heat shock or other stress conditions. DegP is efficient with Val-Xaa and Ile-Xaa peptide bonds, suggesting a preference for beta-branched side chain amino acids. Only unfolded proteins devoid of disulfide bonds appear capable of being cleaved, thereby preventing non-specific proteolysis of folded proteins. Its proteolytic activity is essential for the survival of cells at elevated temperatures. It can degrade IciA, Ada, casein, globin and PapA. DegP shares specificity with DegQ. DegP is also involved in the biogenesis of partially folded outer-membrane proteins (OMP).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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