





Recombinant Escherichia coli Periplasmic serine endoprotease DegP (degP)

Product Code	CSB-YP314631ENV		
Relevance	DegP acts as a chaperone at low tperatures but switches to a peptidase (heat shock protein) at higher tperatures. It degrades transiently denatured and unfolded 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 tperatures. 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-mbrane proteins (OMP).		
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.		
Uniprot No.	P0C0V0		
Alias	Heat shock protein DegPProtease Do		
Product Type	Recombinant Protein		
Immunogen Species	Escherichia coli (strain K12)		
Purity	Greater than 90% as determined by SDS-PAGE.		
Sequence	AETSSATTAQQMPSLAPMLEKVMPSVVSINVEGSTTVNTPRMPRNFQQFFGD DSPFCQEGSPFQSSPFCQGGQGGGGGQQQKFMALGSGVIIDADKGYVVTN NHVVDNATVIKVQLSDGRKFDAKMVGKDPRSDIALIQIQNPKNLTAIKMADSDA LRVGDYTVAIGNPFGLGETVTSGIVSALGRSGLNAENYENFIQTDAAINRGNSG GALVNLNGELIGINTAILAPDGGNIGIGFAIPSNMVKNLTSQMVEYGQVKRGEL GIMGTELNSELAKAMKVDAQRGAFVSQVLPNSSAAKAGIKAGDVITSLNGKPIS SFAALRAQVGTMPVGSKLTLGLLRDGKQVNVNLELQQSSQNQVDSSSIFNGIE GAEMSNKGKDQGVVVNNVKTGTPAAQIGLKKGDVIIGANQQAVKNIAELRKVL DSKPSVLALNIQRGDSTIYLLMQ		
Lead Time	3-7 business days		
Research Area	Others		
Source	Yeast		
Gene Names	degP		
Protein Names	Recommended name: Periplasmic serine endoprotease DegP EC= 3.4.21.107 Alternative name(s): Heat shock protein DegP Protease Do		
Expression Region	27-474aa		
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at		



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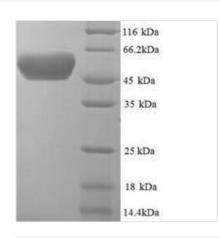
4°C	for	up	to	one	weel	۲.
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Tag Info	N-terminal 6xHis-tagged
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Mol. Weight 48.8kDa

Full Length of Mature Protein **Protein Description**

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.