

Periplasmic serine endoprotease DegP Recombinant Protein | degP recombinant protein

Recombinant Escherichia coli Periplasmic serine endoprotease DegP

CATALOG #
AAA115692

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

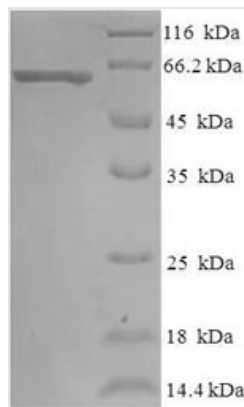
PRODUCT SYNONYMS

Periplasmic serine endoprotease DegP; Recombinant Escherichia coli Periplasmic serine endoprotease DegP; Heat shock protein DegP; Protease Do; degP recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	27-474aa; Full Length of Mature Protein
Sequence	AETSSATTAQ QMPSLAPMLE KVMPVVSVIN VEGSTTVNTP RMPRNFQQFF GDDSPFCQEG SPFQSSPFCQ GGQGGNGGGQ QQKFMALGSG VIIDADKGYV VTNNHVVDNA TVIKVQLSDG RKFDAKMGVK DPRSDIALIQ IQNPKNLTAI KMADSDALRV GDYTVAIGNP FGLGETVTSG IVSALGRSGL NAENYENFIQ TDAAINRGNS GGALVNLNGE LIGINTAILA PDGGNIGIGF AIPSNMVKNL TSQMVEYGQV KRGELGIMGT ELNSELAKAM KVDAQRGAFV SQVLPNSSAA KAGIKAGDVI TSLNGKPISS FAALRAQVGT MPVGSKLTG LLRDGKQVNV NLELQQSSQN QVDSSSIFNG IEGAEMSNKG KDQGVVVNNV KTGTPAAQIG LKKGDVIIGA NQQAVKNIAE LRKVLDSKPS VLALNIQRGD STIYLLMQ
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for degP recombinant protein	DegP acts as a chaperone at low temperatures but switches to a peptidase (heat shock protein) at higher temperatures. 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 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).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16128154
NCBI GeneID	947139
NCBI Accession #	NP_414703.1

NCBI GenBank Nucleotide #	NC_000913.3
UniProt Accession #	P0C0V0 ; P09376 ; P15724
Molecular Weight	48.8 kDa
NCBI Official Full Name	serine endoprotease (protease Do), membrane-associated
NCBI Official Symbol	degP
NCBI Official Synonym Symbols	ECK0160; htrA; JW0157; ptd
NCBI Protein Information	serine endoprotease (protease Do), membrane-associated
UniProt Protein Name	Periplasmic serine endoprotease DegP
UniProt Gene Name	degP
UniProt Synonym Gene Names	htrA; ptd
UniProt Entry Name	DEGP_ECOLI

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