Serine Endoprotease Degs (degS) Haemophilus Influenzae Recombinant Protein

PRODUCT OVERVIEW

Product Name	Serine endoprotease DegS (degS), Recombinant Protein
Full Product Name	Recombinant Haemophilus influenzae Serine endoprotease DegS (degS)
Product Gene Name	degS recombinant protein
Sequence	NSNIFTSDDI ISFKNAVRIA SPAVVNVYNR SFSSASINDN DQLQVNNLGS GVIMSKDGYI LTNKHLIQNA DQIVVALQNG NIFEASLVGS DDLTDLAVLK IRADNLSTIP QNSARQAHVG DVVLAIGNPY NLGQSVSQGI ISAIGRNAVG DSVGRQNFIQ TDASINRGNS GGALINSAGE LVGISTLSIG KTANEIAEGL NFAIPIDIAN DVLRKIMRDG RVIRGYFGVQ SDISSSSEEG IVITDVSPNS PAAKSGIQVG DVILKLNNQE GISAREMMQI IANTKPNSKV LVTILRLGKI LQIPVVIEEF PVN
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	36,039 Da
Sequence Positions	28-340, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for P44947
Species	Haemophilus influenzae (strain 51907 / DSM 11121 / KW20 / Rd)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for degS recombinant protein	MBS1257001 is a recombinant protein targeting degS. Also known as Recombinant Haemophilus influenzae Serine endoprotease DegS (degS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of degS recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for degS. It may not necessarily be applicable to this product.

NCBI GI #	16272882
NCBI GeneID	949947
NCBI Accession #	NP_439105.1
UniProt Primary Accession #	P44947
UniProt Related Accession #	P44947
GenBank Nucleotide #	NC_000907.1

NCBI Official Full Name	protease
NCBI Official Symbol	degS
UniProt Protein Name	Serine endoprotease DegS
UniProt Synonym Protein Names	Site-1 protease DegS; S1P protease DegS; Site-1-type intramembrane protease
Protein Family	Serine endoprotease
UniProt Gene Name	degS
UniProt Synonym Gene Names	hhoB; htrH; S1P protease DegS
NCBI Protein Information	protease
UniProt Comments for degS	A site-1 protease (S1P) that cleaves the peptide bond between 'Val-148' and 'Ser-149' in RseA. Part of a regulated intramembrane proteolysis (RIP) cascade. When heat shock or other environmental stresses disrupt protein folding in the periplasm, DegS senses the accumulation of unassembled outer membrane porins (OMP) and then initiates RseA (anti sigma-E factor) degradation by cleaving its periplasmic domain, making it a substrate for subsequent cleavage by RseP. This cascade ultimately leads to the sigma-E-driven expression of a variety of factors dealing with folding stress in the periplasm and OMP assembly. Required for basal and stress-induced degradation of RseA ().
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