Ectoine Hydroxylase (ectD) Streptomyces Avermitilis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ectoine hydroxylase (ectD), Recombinant Protein
Full Product Name	Recombinant Streptomyces avermitilis Ectoine hydroxylase (ectD)
Product Gene Name	ectD recombinant protein
Product Synonym Gene Name	ectD
Sequence	MTTITDLYPS RGAAEVSVPR QDPVLWGTPD TPGPITAADL QSYEHDGFLA VPQLIGDDEV ALYHAELERL IHDPAVRADE RSIVEPQSQE IRSVFEVHKI SEIFAQLVRD ERVVGRARQI LGSDVYVHQS RINVKPGFGA SGFYWHSDFE TWHAEDGLPN MRTVSVSIAL TENYDTNGGL MIMPGSHKTF LGCAGATPKD NYKKSLQMQD AGTPSDEALT KFADRHGIRL FTGRAGSATW FDCNCLHGSG DNITPFPRSN VFIVFNSVEN TAVEPFSAPV RRPEFIGARD FTPVR
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	32,618 Da
Sequence Positions	1-295, 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 Q829L6
Species	Streptomyces avermitilis
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ectD recombinant protein	MBS1466495 is a recombinant protein targeting ectD. Also known as Recombinant Streptomyces avermitilis Ectoine hydroxylase (ectD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ectD 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 ectD. It may not necessarily be applicable to this product.

NCBI GI #	739794827
NCBI Accession #	WP_037646868.1
UniProt Primary Accession #	Q829L6
GenBank Nucleotide #	WP_037646868.1
NCBI Official Full Name	ectoine hydroxylase

UniProt Protein Name	Ectoine dioxygenase
UniProt Synonym Protein Names	Ectoine hydroxylase
Protein Family	Ectoine dioxygenase
UniProt Gene Name	ectD
UniProt Comments for ectD	Involved in the biosynthesis of ectoine ((S)-2-methyl-1,4,5,6-tetrahydropyrimidine-4-carboxylic acid) which is a highly soluble organic osmolyte, called compatible solute, use to avoid excessive water efflux, plasmolysis, molecular crowding of the cytoplasm, and cessation of growth in high salinity environments. Catalyzes the 2-oxoglutarate-dependent selective hydroxylation of L-ectoine to yield (4S,5S)-5-hydroxyectoine.
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