Phycoerythrobilin Lyase Cpes (cpeS) Prochlorococcus Marinus Subsp. Pastoris Recombinant Protein

PRODUCT OVERVIEW

Product Name	Phycoerythrobilin lyase CpeS (cpeS), Recombinant Protein
Full Product Name	Recombinant Prochlorococcus marinus subsp. pastoris Phycoerythrobilin lyase CpeS (cpeS)
Product Gene Name	cpeS recombinant protein
Product Synonym Gene Name	cpeS
Sequence	MTKNLITINQ FIQKSLGEWK SIRSTHSLAF QEVENSTSKI EIKELESNNK NVLGLLEKYN YTSKPSFIAL SISWKAISDW EIDQKIEQDK TILLFLPKDK NKGIVLRNKG YTESVISSSE YLIDENENLN IKTIYSSTAS EERICFLSNH IRSRYSVIRN NENNTVIQTS HTSEIRNMSI LKD
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	21,154 Da
Sequence Positions	1-183, 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 Q7V2Z2
Species	Prochlorococcus marinus subsp. pastoris (strain CCMP1986 / MED4)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cpeS recombinant protein	MBS1313858 is a recombinant protein targeting cpeS. Also known as Recombinant Prochlorococcus marinus subsp. pastoris Phycoerythrobilin lyase CpeS (cpeS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cpeS 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 cpeS. It may not necessarily be applicable to this product.

NCBI GI #	499444479
NCBI Accession #	WP_011131943.1
UniProt Primary Accession #	Q7V2Z2
GenBank Nucleotide #	WP_011131943.1
NCBI Official Full Name	phycoerythrobilin lyase CpeS

UniProt Protein Name	Phycoerythrobilin lyase CpeS
Protein Family	Phycoerythrobilin lyase
UniProt Gene Name	cpeS
UniProt Comments for cpeS	Acts as a chromphore lyase, covalently attaching 3Z-phycoerythrobilin (3Z-PEB) to its target protein CpeB (phycoerythrin). Binds the isomeric chromophores 3E-phycoerythrobilin (3E-PEB), 3Z-PEB as well as their precursor 15,16-dihydrobiliverdin (DHBV) but not other chromophores tested. While it can transfer 3E-PEB a non-physiological adduct is made. Chromophore is bound to the lyase in a ratio of nearly 1:1.
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