Probable Zeta-Carotene Desaturase (zds) Synechococcus Elongatus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Probable zeta-carotene desaturase (zds), Recombinant Protein
Full Product Name	Recombinant Synechococcus elongatus Probable zeta-carotene desaturase (zds)
Product Gene Name	zds recombinant protein
Product Synonym Gene Name	zds
Sequence	MRVAIVGAGL AGLAAAIDLV DAGHQVAIYD SRPFVGGKVG SWIDADGNHI EMGLHVFFFN YANLFALMRK VGAFENLLPK AHTHTFINKG GEVGELDFRF PIGAPFNGLK AFFTTSQLTW LDKLQNALAL GTSPLVRGIL DYEGAMKIIR ALDRISFADW FRSHGGSEGS LKRMWNPIAY ALGFIDTENI SARCMLTVFQ MFAAKTEASK LNLLAGSPAE YLHKPILDYI QARGATLHLR RRVREIEYTE TNGQTVVTGL QIADGDAVER VEADVYLAAC DVPGIQRLLP EAWRKWSEFD NIYKLDAVPV ATVQLRFDGW VTELGDREKR HQLDHATGLD NLLYTADADF SCFTDLALSS PKDYYRKGQG SLLQCVLTPG DPFIAMKNED IAQHVLKQVH ELFPSSRDLN MTWSNVVKLA QSLYREAPGM DPFRPDQKTP IANFFLAGSY TQQDYIDSME GATISGRRAA KAMLEAQAIA A
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	53,278 Da
Sequence Positions	1-481, 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 Q31N27
Species	Synechococcus elongatus (strain PCC 7942) (Anacystis nidulans R2)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for zds recombinant protein	MBS1344678 is a recombinant protein targeting zds. Also known as Recombinant Synechococcus elongatus Probable zeta-carotene desaturase (zds). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of zds 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 zds. It may not necessarily be applicable to this product.

NCBI GI #	499697327
NCBI Accession #	WP_011378061.1
UniProt Primary Accession #	Q31N27
GenBank Nucleotide #	WP_011378061.1

NCBI Official Full Name	MULTISPECIES: zeta-carotene desaturase
UniProt Protein Name	Probable zeta-carotene desaturase
UniProt Synonym Protein Names	9,9'-di-cis-zeta-carotene desaturase; Carotene 7,8-desaturase
Protein Family	Probable zeta-carotene desaturase
UniProt Gene Name	zds
UniProt Synonym Gene Names	crtQb
UniProt Comments for zds	Catalyzes the conversion of zeta-carotene to lycopene via the intermediary of neurosporene. It carries out two consecutive desaturations (introduction of double bonds) at positions C-7 and C-7' ().
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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