Magnesium-Protoporphyrin IX Monomethyl Ester [Oxidative] Cyclase 1 (acsF1) Nostoc Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Magnesium-protoporphyrin IX monomethyl ester [oxidative] cyclase 1 (acsF1), Recombinant Protein
Full Product Name	Recombinant Nostoc sp. Magnesium-protoporphyrin IX monomethyl ester [oxidative] cyclase 1 (acsF1)
Product Gene Name	acsF1 recombinant protein
Product Synonym Gene Name	acsF1
Sequence	MVNTLPKPGI KTPSKETVLT PRFYTTDFET AANLDLSAQE NELQAMLAEM RADYNRHHFV RDEAFEQSWE HIDGEARQAF IEYLERSCIS EFSGFLLFKE LSRKLKNRSP VLAEMFQLMA RDEARHAGFL NKAMGDFKLS LDLATVTKTR TYTFFPIEWV LYTVYLSEKI GYWRYIIIFR HLEKHPENQF YPIFRYFESW CQDENRHGDI FKALLRSQPQ LWNNWKARLW SRFFLLSVFA THTLTVHERS GFYKSLGLDA TDFDLQVVRN TNETAGRAFP VMLNTEHPKF FPLLQRCAGY NLNISEIERS SQPKFVKLIR KLPLIAAIVW NLLMVYLIKP IDTEALRETV R
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	41,422 Da
Sequence Positions	1-351, 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 Q8YX57
Species	Nostoc sp. (strain PCC 7120 / UTEX 2576)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for acsF1 recombinant protein	MBS1458373 is a recombinant protein targeting acsF1. Also known as Recombinant Nostoc sp. Magnesium-protoporphyrin IX monomethyl ester [oxidative] cyclase 1 (acsF1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of acsF1 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 acsF1. It may not necessarily be applicable to this product.

NCBI GI #	499304755
NCBI Accession #	WP_010995530.1
UniProt Primary Accession #	Q8YX57

GenBank Nucleotide #	WP_010995530.1
NCBI Official Full Name	MULTISPECIES: magnesium-protoporphyrin IX monomethyl ester (oxidative) cyclase
UniProt Protein Name	Magnesium-protoporphyrin IX monomethyl ester [oxidative] cyclase 1
Protein Family	Magnesium-protoporphyrin IX monomethyl ester [oxidative] cyclase
UniProt Gene Name	acsF1
UniProt Synonym Gene Names	Mg-protoporphyrin IX monomethyl ester oxidative cyclase 1
UniProt Comments for acsF1	Catalyzes the formation of the isocyclic ring in chlorophyll biosynthesis. Mediates the cyclase reaction, which results in the formation of divinylprotochlorophyllide (Pchlide) characteristic of all chlorophylls from magnesium-protoporphyrin IX 13-monomethyl ester (MgPMME).
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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