Geranylgeranylglyceryl Phosphate Synthase () Recombinant Protein

PRODUCT OVERVIEW

Product Name	Geranylgeranylglyceryl phosphate synthase (NP1224A), Recombinant Protein
Full Product Name	Recombinant Natronomonas pharaonis Geranylgeranylglyceryl phosphate synthase (NP1224A)
Product Gene Name	NP1224A recombinant protein
Product Synonym Gene Name	NP1224A
Sequence	MSAPWAEWDH IVKIDPDKTL ADGETFQDVC ATGTDALEIG GTTGMTEEKM ARVVEATAAH DIPVYIEPSN VGAVVHDEDL DGYFVPTVLN AGDVFWTTGA HKEWVRLDGD IDWDRTFTEA YIVLNPDASV ADYTEADCNL DIDEVAAYAE VAEKMFGQEI VYVEYSGMLG DPEMVQAATD ATEEATVFYG GGIRDYESAY TMRQHADTVI VGDLVHDEGA DAVRETVDGA KDAAD
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	25,546 Da
Sequence Positions	1-235, 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 Q3IT31
Species	Natronomonas pharaonis (strain DSM 2160 / 35678)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for NP1224A recombinant protein	MBS1488131 is a recombinant protein targeting NP1224A. Also known as Recombinant Natronomonas pharaonis Geranylgeranylglyceryl phosphate synthase (NP1224A). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of NP1224A 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 NP1224A. It may not necessarily be applicable to this product.

NCBI GI #	499641605
NCBI Accession #	WP_011322339.1
UniProt Primary Accession #	Q3IT31
GenBank Nucleotide #	WP_011322339.1
NCBI Official Full Name	geranylgeranylglyceryl/heptaprenylglyceryl phosphate synthase

UniProt Protein Name	Geranylgeranylglyceryl phosphate synthase
UniProt Synonym Protein Names	(S)-3-O-geranylgeranylglyceryl phosphate synthase
UniProt Gene Name	NP_1224A
UniProt Synonym Gene Names	GGGP synthase; GGGPS
UniProt Comments for NP1224A	Prenyltransferase that catalyzes the transfer of the geranylgeranyl moiety of geranylgeranyl diphosphate (GGPP) to the C3 hydroxyl of sn-glycerol-1-phosphate (G1P). This reaction is the first ether-bond-formation step in the biosynthesis of archaeal membrane lipids.
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