Digeranylgeranylglycerophospholipid Reductase (TK1088) Pyrococcus Kodakaraensis Recombinant Protein

PRODUCT OVERVIEW

Product Name	Digeranylgeranylglycerophospholipid reductase (TK1088), Recombinant Protein
Full Product Name	Recombinant Pyrococcus kodakaraensis Digeranylgeranylglycerophospholipid reductase (TK1088)
Product Gene Name	TK1088 recombinant protein
Product Synonym Names	Digeranylgeranylglycerophospholipid reductase; DGGGPL reductase; EC=1.3.1.-; 2,3-di-O-geranylgeranylglyceryl phosphate reductase; Geranylgeranyl reductase; GGR
Sequence	MTWKYDVVVV GSGIAGPIVA RNVAKAGFSV LLIDKKWAIG TPKQCAEAIS IKVFDKYDIP YDKRFINREI YGAKLYSPSG YELEMRYKEV SGVILERKVF DKMLAYYAAK AGADVLARTE ALDVIRKDGK IVGIKAKHED EPVEIYADII VAADGVESTI ARKAGINTYA PPHEFDSGYE YEMLIEGFDP DLIHLWFGNE VAPRGYVWVF PKDEDRANVG IGINSDNPKT AKYYLDKWLE ENNIPAKKLL EINVGLIPVG GFVKELAKDN VVVVGDAARQ VNPMHGGGMA EAMEAGTIAS KWIVKALEEE NLSLLQNYTK EWWETDGKRL EKVLKVRRVT EKLTDEDLDL FIQILSGADA EKIASGDYAE VIKALLKHPK VLMSKRRLSL LKELL
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	44,157 Da
Sequence Positions	1-395aa; 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 Q5JE27
Species	Pyrococcus kodakaraensis (strain BAA-918 / JCM 12380 / KOD1) (Thermococcus kodakaraensis (strain KOD1))
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TK1088 recombinant protein	MBS1320685 is a recombinant protein targeting TK1088. Also known as Recombinant Pyrococcus kodakaraensis Digeranylgeranylglycerophospholipid reductase (TK1088). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of TK1088 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 TK1088. It may not necessarily be applicable to this product.

NCBI GI #	57641023
NCBI GeneID	3234309
NCBI Accession #	YP_183501.1

UniProt Primary Accession #	Q5JE27
UniProt Related Accession #	Q5JE27
GenBank Nucleotide #	NC_006624.1
NCBI Official Full Name	geranylgeranyl hydrogenase
NCBI Official Symbol	TK1088
UniProt Protein Name	Digeranylgeranylglycerophospholipid reductase
UniProt Synonym Protein Names	2,3-bis-O-geranylgeranylglyceryl phosphate reductase; Geranylgeranyl reductase
UniProt Gene Name	TK1088
UniProt Synonym Gene Names	DGGGPL reductase
UniProt Entry Name	GGR_THEKO
NCBI Protein Information	geranylgeranyl hydrogenase
UniProt Comments for TK1088	Is involved in the reduction of 2,3-digeranylgeranylglycerophospholipids (unsaturated archaeols) into 2,3-diphytanylglycerophospholipids (saturated archaeols) in the biosynthesis of archaeal membrane lipids. Catalyzes the formation of archaetidic acid (2,3-di-O-phytanyl-sn-glyceryl phosphate) from 2,3-di-O-geranylgeranylglyceryl phosphate (DGGGP) via the hydrogenation of each double bond of the isoprenoid chains.
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