Cardiolipin Synthase (cls) Escherichia Coli O45:k1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cardiolipin synthase (cls), Recombinant Protein
Full Product Name	Recombinant Escherichia coli O45:K1 Cardiolipin synthase (cls)
Product Gene Name	cls recombinant protein
Product Synonym Gene Name	cls
Product Synonym Names	Recombinant Cardiolipin synthase (cls); Cardiolipin synthase; CL synthase EC= 2.7.8.-
Sequence	MTTVYTLVSW LAILGYWLLI AGVTLRILMK RRAVPSAMAW LLIIYILPLV GIIAYLAVGE LHLGKRRAER ARAMWPSTAK WLNDLKACKH IFAEENSSVA APLFKLCERR QGIAGVKGNQ LQLMTESDDV MQALIRDIQL ARHNIEMVFY IWQPGGMADQ VAESLMAAAR RGIHCRLMLD SAGSVAFFRS PWPELMRNAG IEVVEALKVN LMRVFLRRMD LRQHRKMIMI DNYIAYTGSM NMVDPRYFKQ DAGVGQWIDL MARMEGPIAT AMGIIYSCDW EIETGKRILP PPPDVNIMPF EQASGHTIHT IASGPGFPED LIHQALLTAA YSAREYLIMT TPYFVPSDDL LHAICTAAQR GVDVSIILPR KNDSMLVGWA SRAFFTELLA AGVKIYQFEG GLLHTKSVLV DGELSLVGTV NLDMRSLWLN FEITLAIDDK GFGADLAAVQ DDYISRSRLL DARLWLKRPL WQRVAERLFY FFSPLL
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 degree C. For extended storage, store at -20 or -80 degree C.
Molecular Weight	54,822 Da
Sequence Positions	1-486
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.
Chromosome Location	NC_011742.1 (1323075..1324535, complement)
3D Structure	ModBase 3D Structure for B7ML01
Species	Escherichia coli O45:K1 (strain S88 / ExPEC)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for cls recombinant protein	MBS1233252 is a recombinant protein targeting cls. Also known as Recombinant Escherichia coli O45:K1 Cardiolipin synthase (cls). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of cls 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 cls. It may not necessarily be applicable to this product.

NCBI GI #	218558177
NCBI GeneID	7131487

NCBI Accession #	YP_002391090.1
UniProt Primary Accession #	B7ML01
UniProt Related Accession #	B7ML01
GenBank Nucleotide #	NC_011742.1
NCBI Official Full Name	cardiolipin synthetase
NCBI Official Symbol	cls
UniProt Protein Name	Cardiolipin synthase
Protein Family	Cardiolipin synthase
UniProt Gene Name	cls
UniProt Synonym Gene Names	CL synthase
UniProt Entry Name	CLS_ECO45
NCBI Protein Information	cardiolipin synthetase
UniProt Comments for cls	Function: Catalyzes the reversible phosphatidyl group transfer from one phosphatidylglycerol molecule to another to form cardiolipin (CL) (diphosphatidylglycerol) and glycerol By similarity. HAMAP-Rule MF_00190 Catalytic activity: 2 Phosphatidylglycerol = diphosphatidylglycerol + glycerol. HAMAP-Rule MF_00190 Subcellular location: Cell inner membrane; Multi-pass membrane protein By similarity HAMAP-Rule MF_00190. Sequence similarities: Belongs to the phospholipase D family. Cardiolipin synthase subfamily.Contains 2 PLD phosphodiesterase domains.
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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