Sn-Glycerol-3-Phosphate-Binding Periplasmic Protein Ugpb (ugpB) Escherichia Coli Recombinant Protein

PRODUCT OVERVIEW

Product Name	sn-glycerol-3-phosphate-binding periplasmic protein ugpB (ugpB), Recombinant Protein
Full Product Name	Recombinant Escherichia coli sn-glycerol-3-phosphate-binding periplasmic protein ugpB (ugpB)
Product Gene Name	ugpB recombinant protein
Sequence	VTTIPFWHSM EGELGKEVDS LAQRFNAENP DYKIVPTYKG NYEQNLSAGI AAFRTGNAPA ILQVYEVGTA TMMASKAIKP VYDVFKEAGI QFDESQFVPT VSGYYSDSKT GHLLSQPFNS STPVLYYNKD AFKKAGLDPE QPPKTWQDLA DYAAKLKASG MKCGYASGWQ GWIQLENFSA WNGLPFASKN NGFDGTDAVL EFNKPEQVKH IAMLEEMNKK GDFSYVGRKD ESTEKFYNGD CAMTTASSGS LANIREYAKF NYGVGMMPYD ADAKDAPQNA IIGGASLWVM QGKDKETYTG VAKFLDFLAK PENAAEWHQK TGYLPITKAA YDLTREQGFY EKNPGADTAT RQMLNKPPLP FTKGLRLGNM PQIRVIVDEE LESVWTGKKT PQQALDTAVE RGNQLLRRFE KSTKS
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	48,449 Da
Sequence Positions	24-438, 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 P0AG80
Species	Escherichia coli (strain K12)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ugpB recombinant protein	MBS1218487 is a recombinant protein targeting ugpB. Also known as Recombinant Escherichia coli sn-glycerol-3-phosphate-binding periplasmic protein ugpB (ugpB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ugpB 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 ugpB. It may not necessarily be applicable to this product.

NCBI GI #	16131325
NCBI GeneID	947962
NCBI Accession #	NP_417910.1
UniProt Primary Accession #	P0AG80

UniProt Secondary Accession #	P10904; Q2M7B6
GenBank Nucleotide #	NC_000913.3
NCBI Official Full Name	sn-glycerol-3-phosphate ABC transporter periplasmic binding protein
NCBI Official Symbol	ugpB
NCBI Official Synonym Symbols	ECK3437; JW3418; psiB; psiC
UniProt Protein Name	sn-glycerol-3-phosphate-binding periplasmic protein UgpB
Protein Family	sn-glycerol-3-phosphate-binding periplasmic protein
UniProt Gene Name	ugpB
NCBI Protein Information	sn-glycerol-3-phosphate ABC transporter periplasmic binding protein
NCBI Summary for ugpB	Pho regulon. [More information is available at EcoGene: EG11047]. The UgpABCE glycerol-3-phosphate uptake system is a member of the ATP-Binding Cassette (ABC) Superfamily . [More information is available at EcoCyc: EG11047].
UniProt Comments for ugpB	sn-glycerol-3-phosphate and glycerophosphoryl diester-binding protein interacts with the binding protein-dependent transport system UgpACE.
Research Articles on ugpB	**1.** Mutations in the ugpBAECQ operon (Ugp)eliminated the ability of phoA-deleted E. coli to utilize glycerol-2-phosphate (G2P)suggesting that G2P is a previously unrecognized substrate for the binding protein-dependent Ugp transporter.
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