Guanosine-5'-Triphosphate,3'-Diphosphate Pyrophosphatase (gppA) Escherichia Coli O45:k1 Recombinant Protein

PRODUCT OVERVIEW

Product Name	Guanosine-5'-triphosphate,3'-diphosphate pyrophosphatase (gppA), Recombinant Protein
Full Product Name	Recombinant Escherichia coli O45:K1 Guanosine-5'-triphosphate,3'-diphosphate pyrophosphatase (gppA)
Product Gene Name	gppA recombinant protein
Sequence	MGSTSSLYAA IDLGSNSFHM LVVREVAGSI QTLTRIKRKV RLAAGLNSEN ALSNEAMERG WQCLRLFAER LQDIPPSQIR VVATATLRLA VNAGDFIAKA QEILGCPVQV ISGEEEARLI YQGVAHTTGG ADQRLVVDIG GASTELVTGT GAQTTSLFSL SMGCVTWLER YFADRNLGQE NFDAAEKAAR EVLRPVADEL RYHGWKVCVG ASGTVQALQE IMMAQGMDER ITLEKLQQLK QRAIHCGRLE ELEIDGLTLE RALVFPSGLA ILIAIFTELN IQCMTLAGGA LREGLVYGML HLTVEQDIRS RTLRNIQRRF MIDIDQAQRV AKVAANFFDQ VENEWHLEAI SRDLLISACQ LHEIGLSVDF KQAPQHAAYL VRNLDLPGFT PAQKKLLATL LLNQTNPVDL SSLHQQNAVP PRVAEQLCRL LRLAIIFASR RRDDLVPEMT LQANHELLTL TLPQGWLTQH PLGKEIIDQE SQWQSYVHWP LEVH
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	54,945 Da
Sequence Positions	1-494, 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 B7MGI9
Species	Escherichia coli O45:K1 (strain S88 / ExPEC)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for gppA recombinant protein	MBS1256584 is a recombinant protein targeting gppA. Also known as Recombinant Escherichia coli O45:K1 Guanosine-5'-triphosphate,3'-diphosphate pyrophosphatase (gppA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of gppA 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 gppA. It may not necessarily be applicable to this product.

NCBI GI #	485673644
NCBI Accession #	WP_001314257.1
UniProt Primary Accession #	B7MGI9

GenBank Nucleotide #	WP_001314257.1
NCBI Official Full Name	MULTISPECIES: guanosine-5'-triphosphate,3'-diphosphate pyrophosphatase
UniProt Protein Name	Guanosine-5'-triphosphate,3'-diphosphate pyrophosphatase
UniProt Synonym Protein Names	Guanosine pentaphosphate phosphohydrolase
Protein Family	Glycoprotein
UniProt Gene Name	gppA
UniProt Comments for gppA	Catalyzes the conversion of pppGpp to ppGpp. Guanosine pentaphosphate (pppGpp) is a cytoplasmic signaling molecule which together with ppGpp controls the "stringent response", an adaptive process that allows bacteria to respond to amino acid starvation, resulting in the coordinated regulation of numerous cellular activities.
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