Gtpase Obg (obg) Streptomyces Griseus Recombinant Protein

PRODUCT OVERVIEW

Product Name	GTPase obg (obg), Recombinant Protein
Full Product Name	Recombinant Streptomyces griseus GTPase obg (obg)
Product Gene Name	obg recombinant protein
Sequence	MTTFVDRVEL HAAAGNGGHG CASVHREKFK PLGGPDGGNG GRGGDVILVV EQSVTTLLDY HHSPHRKATN GQPGAGDNRS GKDGQDLVLP VPDGTVVLDK AGNVLADLVG QGTTFVAGQG GRGGLGNAAL ASARRKAPGF ALLGEPGESR DIVLELKTVA DVALVGYPSA GKSSLISVLS AAKPKIADYP FTTLVPNLGV VTAGSTVYTI ADVPGLIPGA SQGKGLGLEF LRHVERCSVL VHVLDTATLE SDRDPVSDLD MIEEELRLYG GLENRPRIVA LNKVDIPDGQ DLADMIRPDL EARGYRVFEV SAIAHKGLKE LSFALAGIIA EARATKPKEE ATRIVIRPRA VDDAGFTVTL EDDGIYRVRG EKPERWVRQT DFNNDEAVGY LADRLNRLGV EDSLMKAGAR AGDGVAIGPE ENAVVFDWEP TVTAGAEMLG RRGEDHRLEE PRPAAQRRRE RDAERDDAEK EYDEFDPF
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	51,024 Da
Sequence Positions	1-478, 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 P95758
Species	Streptomyces griseus
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for obg recombinant protein	MBS1232207 is a recombinant protein targeting obg. Also known as Recombinant Streptomyces griseus GTPase obg (obg). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of obg 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 obg. It may not necessarily be applicable to this product.

NCBI GI #	490067017
NCBI Accession #	WP_003969206.1
UniProt Primary Accession #	P95758
GenBank Nucleotide #	WP_003969206.1
NCBI Official Full Name	MULTISPECIES: GTPase ObgE

UniProt Protein Name	GTPase Obg
UniProt Synonym Protein Names	GTP-binding protein Obg
Protein Family	GTPase
UniProt Gene Name	obg
UniProt Comments for obg	Overexpression suppresses sporulation although cell growth rate was not reduced. Impaired differentiation was eliminated by addition of decoyinine, an inhibitor of GMP synthesis. Overexpression has no effect on streptomycin production.An essential GTPase which binds GTP, GDP and possibly (p)ppGpp with moderate affinity, with high nucleotide exchange rates and a fairly low GTP hydrolysis rate. Plays a role in control of the cell cycle, stress response, ribosome biogenesis and in those bacteria that undergo differentiation, in morphogenesis control.
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