Inosine-5'-Monophosphate Dehydrogenase (guaB) Staphylococcus Aureus Recombinant Protein

PRODUCT OVERVIEW

Product Name	Inosine-5'-monophosphate dehydrogenase (guaB), Recombinant Protein
Full Product Name	Recombinant Staphylococcus aureus Inosine-5'-monophosphate dehydrogenase (guaB)
Product Gene Name	guaB recombinant protein
Product Synonym Gene Name	guaB
Sequence	MWESKFAKES LTFDDVLLIP AQSDILPKDV DLSVQLSDKA KLNIPVISAG MDTVTESKMA IAMARQGGLG VIHKNMGVEE QADEVQKVKR SENGVISNPF FLTPEESVYE AEALMGKYRI SGVPIVDNKE DRNLVGILTN RDLRFIEDFS IKIVDVMTQE NLITAPVNTT LEEAEKILQK HKIEKLPLVK DGRLEGLITI KDIEKVIEFP NAAKDEHGRL LVAAAIGISK DTDIRAQKLV EAGVDVLVID TAHGHSKGVI DQVKHIKKTY PEITLVAGNV ATAEATKDLF EAGADIVKVG IGPGSICTTR VVAGVGVPQI TAIYDCATEA RKHGKAIIAD GGIKFSGDII KALAAGGHAV MLGSLLAGTE ESPGATEIFQ GRQYKVYRGM GSLGAMEKGS NDRYFQEDKA PKKFVPEGIE GRTAYKGALQ DTIYQLMGGV RAGMGYTGSH DLRELREEAQ FTRMGPAGLA ESHPHNIQIT KESPNYSF
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	52,823 Da
Sequence Positions	1-488, 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 Q8NY70
Species	Staphylococcus aureus (strain MW2)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for guaB recombinant protein	MBS1454528 is a recombinant protein targeting guaB. Also known as Recombinant Staphylococcus aureus Inosine-5'-monophosphate dehydrogenase (guaB). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of guaB 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 guaB. It may not necessarily be applicable to this product.

NCBI GI #	446186213
NCBI Accession #	WP_000264068.1
UniProt Primary Accession #	Q8NY70

GenBank Nucleotide #	WP_000264068.1
NCBI Official Full Name	IMP dehydrogenase
UniProt Protein Name	Inosine-5'-monophosphate dehydrogenase
Protein Family	Inosine-5'-monophosphate dehydrogenase
UniProt Gene Name	guaB
UniProt Synonym Gene Names	IMP dehydrogenase; IMPD; IMPDH
UniProt Comments for guaB	Catalyzes the conversion of inosine 5'-phosphate (IMP) to xanthosine 5'-phosphate (XMP), the first committed and rate-limiting step in the de novo synthesis of guanine nucleotides, and therefore plays an important role in the regulation of cell growth.
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