Imidazole Glycerol Phosphate Synthase Subunit Hish (hisH) Synechococcus Sp. Recombinant Protein

PRODUCT OVERVIEW

Product Name	Imidazole glycerol phosphate synthase subunit HisH (hisH), Recombinant Protein
Full Product Name	Recombinant Synechococcus sp. Imidazole glycerol phosphate synthase subunit HisH (hisH)
Product Gene Name	hisH recombinant protein
Product Synonym Gene Name	hisH
Sequence	MGLNLGVIDY GMGNLHSVGK ALERLGEQAV LVQGPEDLKS VDALILPGVG SFDPAIENLR ATGLIPHLKD WGNNNRPLLG ICLGLQLLFE RSDEGSKDGL GLFQGAVERL QSHPNERIPH MGWAPLTVER NCPLLHSDDP TPWVYFVHSY AAVPLNSSVL AATAAYGNAA VTAMVWSGRI GACQFHPEKS SAAGEAMLKR WLHWLHQGAE PVH
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	23,021 Da
Sequence Positions	1-213, 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 Q3AYZ0
Species	Synechococcus sp. (strain CC9902)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for hisH recombinant protein	MBS1316687 is a recombinant protein targeting hisH. Also known as Recombinant Synechococcus sp. Imidazole glycerol phosphate synthase subunit HisH (hisH). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of hisH 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 hisH. It may not necessarily be applicable to this product.

NCBI GI #	499678794
NCBI Accession #	WP_011359528.1
UniProt Primary Accession #	Q3AYZ0
GenBank Nucleotide #	WP_011359528.1

NCBI Official Full Name	imidazole glycerol phosphate synthase subunit HisH
UniProt Protein Name	Imidazole glycerol phosphate synthase subunit HisH
UniProt Synonym Protein Names	IGP synthase glutamine amidotransferase subunit
Protein Family	Imidazole glycerol phosphate synthase
UniProt Gene Name	hisH
UniProt Synonym Gene Names	IGPS subunit HisH
UniProt Comments for hisH	IGPS catalyzes the conversion of PRFAR and glutamine to IGP, AICAR and glutamate. The HisH subunit provides the glutamine amidotransferase activity that produces the ammonia necessary to HisF for the synthesis of IGP and AICAR.
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