Imidazole Glycerol Phosphate Synthase Subunit Hisf (hisF) Geobacter Metallireducens Recombinant Protein

PRODUCT OVERVIEW

Product Name	Imidazole glycerol phosphate synthase subunit HisF (hisF), Recombinant Protein
Full Product Name	Recombinant Geobacter metallireducens Imidazole glycerol phosphate synthase subunit HisF (hisF)
Product Gene Name	hisF recombinant protein
Product Synonym Gene Name	hisF
Sequence	MLTKRIIPCL DVKGGRVVKG VQFLELRDAG DPVEIAEAYD RQGADELTFL DITASSDERN IIDVVRRTA ERVFMPLTVG GGVRIVDDIR NLLNAGADKV SINTAAVHRP EFVREAAERF GSQCTVVAID ARQVPGENRW EVYTHGGRNP TGIDAVEWAR RMEEYGAGEI LLTSMDRDGT KDGYDISLTR AIVDAVSIPV IASGGVGNLE HLHDGFVKAG ASACLAASIF HYKEYTIGEA KEYLRGRGVP VRL
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	27,596 Da
Sequence Positions	1-253, 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 Q39YP2
Species	Geobacter metallireducens (strain GS-15 / 53774 / DSM 7210)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for hisF recombinant protein	MBS1319348 is a recombinant protein targeting hisF. Also known as Recombinant Geobacter metallireducens Imidazole glycerol phosphate synthase subunit HisF (hisF). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of hisF 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 hisF. It may not necessarily be applicable to this product.

NCBI GI #	490647366
NCBI Accession #	WP_004512361.1
UniProt Primary Accession #	Q39YP2
GenBank Nucleotide #	WP_004512361.1

NCBI Official Full Name	imidazole glycerol phosphate synthase cyclase subunit
UniProt Protein Name	Imidazole glycerol phosphate synthase subunit HisF
UniProt Synonym Protein Names	IGP synthase cyclase subunit
Protein Family	Imidazole glycerol phosphate synthase
UniProt Gene Name	hisF
UniProt Synonym Gene Names	IGPS subunit HisF
UniProt Comments for hisF	IGPS catalyzes the conversion of PRFAR and glutamine to IGP, AICAR and glutamate. The HisF subunit catalyzes the cyclization activity that produces IGP and AICAR from PRFAR using the ammonia provided by the HisH subunit.
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