# Imidazole Glycerol Phosphate Synthase Subunit Hisf (hisF) Beijerinckia Indica Subsp. Indica Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Imidazole glycerol phosphate synthase subunit HisF (hisF), Recombinant Protein |
| **Full Product Name** | Recombinant Beijerinckia indica subsp. indica Imidazole glycerol phosphate synthase subunit HisF (hisF) |
| **Product Gene Name** | hisF recombinant protein |
| **Sequence** | MLKARVIPCL DVKDGRVVKG VNFVDLRDAG DPVQCAIAYD AAGADELCFL DITASHEDRG ILLDVVERTA AACFMPLTVG GGVRTEDDIR KLLLAGADKV SIMSAAVTDR DFVRRAAEKF GSQCVVVAID AKEVRPGAWE IFTHGGRKPT GIDAITYARD VAERGAGEIL LTSMDRDGTK AGFDLALTRA VSSAVSIPVI ASGGVGTLDH LVEGIAQGGA QAVLAASIFH FGTFTIAEAK HYMAQHGLPM RLDTGAAMPP GPFPAPSPPV SPAATG |
| **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** | 28,739 Da |
| **Sequence Positions** | 1-276, 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 B2ICL0 |
| **Species** | Beijerinckia indica subsp. indica (strain 9039 / DSM 1715 / NCIB 8712) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for hisF recombinant protein** | MBS1224097 is a recombinant protein targeting hisF. Also known as Recombinant Beijerinckia indica subsp. indica 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.

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| **NCBI GI #** | 501351622 |
| **NCBI Accession #** | WP_012383257.1 |
| **UniProt Primary Accession #** | B2ICL0 |
| **GenBank Nucleotide #** | WP_012383257.1 |
| **NCBI Official Full Name** | imidazole glycerol phosphate synthase cyclase subunit |

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| **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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