# Imidazole Glycerol Phosphate Synthase Subunit Hisf (hisF) Moorella Thermoacetica Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Imidazole glycerol phosphate synthase subunit HisF (hisF), Recombinant Protein |
| **Full Product Name** | Recombinant Moorella thermoacetica Imidazole glycerol phosphate synthase subunit HisF (hisF) |
| **Product Gene Name** | hisF recombinant protein |
| **Product Synonym Gene Name** | hisF |
| **Sequence** | MLTKRIIPCL DVDHGRVVKG TNFLNLRDAG DPVELAAAYD REGADELVFL DISASVEGRD IMIDVARRTA AQVFIPFTVG GGLRSLEDIR AMLAAGADKI SLNTAAVLDP DLVATAARRF GSQCVVVAID ARRTGPGRWE VYTHGGRRPT GRDAVAWARQ VEELGAGEIL LTSMDCDGTL DGYDLELTAT VSQAVNIPVI ASGGVGKLEH LYEGLTAGRA DAVLAASIFH FGTYTIKEAK DYLAARGVPV RL |
| **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** | 26,838 Da |
| **Sequence Positions** | 1-252, 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 Q2RGW2 |
| **Species** | Moorella thermoacetica (strain 39073) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for hisF recombinant protein** | MBS1355795 is a recombinant protein targeting hisF. Also known as Recombinant Moorella thermoacetica 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 #** | 499712793 |
| **NCBI GeneID** | 3831406 |
| **NCBI Accession #** | WP_011393527.1 |
| **UniProt Primary Accession #** | Q2RGW2 |

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| **UniProt Related Accession #** | Q2RGW2 |
| **GenBank Nucleotide #** | WP_011393527.1 |
| **NCBI Official Full Name** | imidazole glycerol phosphate synthase cyclase subunit |
| **NCBI Official Symbol** | Moth_2031 |
| **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 |
| **NCBI Protein Information** | imidazole glycerol phosphate synthase 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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