# Histidinol Dehydrogenase (hisD) Prochlorococcus Marinus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Histidinol dehydrogenase (hisD), Recombinant Protein |
| **Full Product Name** | Recombinant Prochlorococcus marinus Histidinol dehydrogenase (hisD) |
| **Product Gene Name** | hisD recombinant protein |
| **Product Synonym Gene Name** | hisD |
| **Sequence** | MTQIINKDEV QETSSKKLTI KTANSIDQAQ FELRKITERT SGTVQDEAIK VVDDILKNVR ERGDEALTEY TSRFDGFLTE KFQVSSDLIL KAWEETPREL QDSLLLAKKR IEKFHSLQVP KNITYTGPNG ETLGRRWSPV EKAGIYVPGG RAAYPSTVLM NAIPAYVAGV NQIIMVSPAN SQGEINQTVL AAAHITGINK IFRLGGAQAI CALASGTESI PKVDVITGPG NIYVTLAKKK VYGKVGIDSL AGPSEILIIA DQSAKLEHVA SDMLAQSEHD PLASAILITT NTKLAEKLPA EINRQLINHP RLKICQESIS NWGLIVLCDD LETCAQLSDT FAPEHLELLV EDPKKLSESI NNAGAIFMGP WSPEAIGDYL GGPNHTLPTS GTARFAGALG VETFMKNTSL IDFSKEAFNE NKNAVVQLAN SEGLHSHAES IRIRDSKSF |
| **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** | 48,862 Da |
| **Sequence Positions** | 1-449, 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 Q46J19 |
| **Species** | Prochlorococcus marinus (strain NATL2A) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for hisD recombinant protein** | MBS1357916 is a recombinant protein targeting hisD. Also known as Recombinant Prochlorococcus marinus Histidinol dehydrogenase (hisD). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of hisD 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 hisD. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499614630 |
| **NCBI Accession #** | WP_011295364.1 |
| **UniProt Primary Accession #** | Q46J19 |
| **GenBank Nucleotide #** | WP_011295364.1 |

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| **NCBI Official Full Name** | histidinol dehydrogenase |
| **UniProt Protein Name** | Histidinol dehydrogenase |
| **Protein Family** | Histidinol dehydrogenase |
| **UniProt Gene Name** | hisD |
| **UniProt Synonym Gene Names** | HDH |
| **UniProt Comments for hisD** | Catalyzes the sequential NAD-dependent oxidations of L-histidinol to L-histidinaldehyde and then to L-histidine. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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