# Histidinol Dehydrogenase (hisD) Thiomicrospira Crunogena Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Histidinol dehydrogenase (hisD), Recombinant Protein |
| **Full Product Name** | Recombinant Thiomicrospira crunogena Histidinol dehydrogenase (hisD) |
| **Product Gene Name** | hisD recombinant protein |
| **Product Synonym Gene Name** | hisD |
| **Sequence** | MLNIRKLSAN ADGFKAELEA LLAWETVSND SVNEIVKDVL KNVRERGDEA LLEYTAKFDR LTLAKGSDLE IPKSELEAAL KRIPKDQRDG LELSAQRVKD YHEKQVMKSW SYTEDDGTFL GQQVTCLDRV GLYVPGGKAA YPSSVIMNAI PAKVAGVPEL IMVVPTPDGE VNDMVLAAAA ICGVDRVFTL GGAQAVAALA YGTETVPPVD KVVGPGNIFV ATAKREVFGT VGIDMIAGPS EILVYCDGKT NPDWIAMDLF SQAEHDEDAQ SILVTQDAEF AEKVYLSMNK LVKTLPREEI ITKAITDRGA IIVVDNEDQA IELINYIAPE HLELSIDEPK ALLPKIKHAG AIFMGRFTAE ALGDYCAGPN HVLPTSRTAR FSSPLGVYDF QKRSSLIMCS AEGANMLGQV AGVLADGEGL QAHAASARYR VKD |
| **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** | 46,827 Da |
| **Sequence Positions** | 1-433, 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 Q31GY9 |
| **Species** | Thiomicrospira crunogena (strain XCL-2) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for hisD recombinant protein** | MBS1473068 is a recombinant protein targeting hisD. Also known as Recombinant Thiomicrospira crunogena 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 #** | 499689677 |
| **NCBI Accession #** | WP_011370411.1 |
| **UniProt Primary Accession #** | Q31GY9 |
| **GenBank Nucleotide #** | WP_011370411.1 |

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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. |
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