# Nitrogenase Iron Protein (nifH) Trichodesmium Thiebautii Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Nitrogenase iron protein (nifH), Recombinant Protein |
| **Full Product Name** | Recombinant Trichodesmium thiebautii Nitrogenase iron protein (nifH) |
| **Product Gene Name** | nifH recombinant protein |
| **Sequence** | MRQIAFYGKG GIGKSTTSQN TLAAMANRHG QRIMIVGCDP KADSTRLILD AKAQTTVLHV AAELGAVEDV ELDQVLKPGF GGIKCVESGG PEPGVGCAGR GIITAINFLE EEGAYTDLDF VSYDVLGDVV CGGFAMPIRE NKAQEIYIVC SGEMMAMYAA NNIARGVLKY AHAGGVRLGG LICNSRKVDR ETELIENLAA RLNTQMIHFV PRDNVVQRAE IRRLTVEQYA PEDNQAQEYN KLAEKIINNE KLTIPTPLEM DELEELLIEF GLLAATKKIV RNKLQHKMQQ QQKK |
| **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** | 32,276 Da |
| **Sequence Positions** | 1-294, 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 P26254 |
| **Species** | Trichodesmium thiebautii |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for nifH recombinant protein** | MBS1252283 is a recombinant protein targeting nifH. Also known as Recombinant Trichodesmium thiebautii Nitrogenase iron protein (nifH). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of nifH 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 nifH. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 20141524 |
| **NCBI Accession #** | P26254.2 |
| **UniProt Primary Accession #** | P26254 |
| **UniProt Secondary Accession #** | Q56373 |
| **NCBI Official Full Name** | Nitrogenase iron protein |
| **UniProt Protein Name** | Nitrogenase iron protein |

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| **UniProt Synonym Protein Names** | Nitrogenase Fe protein; Nitrogenase component II; Nitrogenase reductase |
| **Protein Family** | Nitrogenase iron protein |
| **UniProt Gene Name** | nifH |
| **UniProt Comments for nifH** | The key enzymatic reactions in nitrogen fixation are catalyzed by the nitrogenase complex, which has 2 components: the iron protein and the molybdenum-iron protein. |
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