# Nifu-Like Protein (nifU) Aquifex Aeolicus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | NifU-like protein (nifU), Recombinant Protein |
| **Full Product Name** | Recombinant Aquifex aeolicus NifU-like protein (nifU) |
| **Product Gene Name** | nifU recombinant protein |
| **Sequence** | MSFEYNEKVL DHFLNPRNVG VLEDANGVGQ CGNPACGDAM LFTIKVNPEN DVIEDVRFKT FGCGSAIAVS SMLTEMVKGK PIQYALNLTY KDIFEELGGL PPQKIHCTNL GLETLHVAIK DYLMKQGRVE EASKIPDCYE EEEEQEESKE FEFLSGT |
| **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** | 17,531 Da |
| **Sequence Positions** | 1-157, Full length |
| **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 O67045 |
| **Species** | Aquifex aeolicus (strain VF5) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for nifU recombinant protein** | MBS1230125 is a recombinant protein targeting nifU. Also known as Recombinant Aquifex aeolicus NifU-like protein (nifU). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of nifU 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 nifU. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 15606229 |
| **NCBI GeneID** | 1193587 |
| **NCBI Accession #** | NP_213607.1 |
| **UniProt Primary Accession #** | O67045 |
| **UniProt Related Accession #** | O67045 |
| **GenBank Nucleotide #** | NC_000918.1 |
| **NCBI Official Full Name** | NifU protein |

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| **NCBI Official Symbol** | nifU |
| **UniProt Protein Name** | Iron-sulfur cluster assembly scaffold protein IscU |
| **UniProt Synonym Protein Names** | Sulfur acceptor protein IscU |
| **Protein Family** | Nitrogen fixation protein |
| **UniProt Gene Name** | iscU |
| **UniProt Synonym Gene Names** | nifU |
| **NCBI Protein Information** | NifU protein |
| **UniProt Comments for nifU** | A scaffold on which IscS assembles Fe-S clusters. Subsequently gives the nascent cluster to other proteins. It is likely that Fe-S cluster coordination is flexible as the role of this complex is to build and then hand off Fe-S clusters (Probable). |
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