# Translation Initiation Factor if-1, Chloroplastic (infA) Saccharum Hybrid Recombinant Protein

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | Translation initiation factor IF-1, chloroplastic (infA), Recombinant Protein |
| **Full Product Name** | Recombinant Saccharum hybrid Translation initiation factor IF-1, chloroplastic (infA) |
| **Product Gene Name** | infA recombinant protein |
| **Product Synonym Gene Name** | infA |
| **Sequence** | MTEKKNRREK KNPREAKVTF EGLVTEALPN GMFRVRLEND TIILGYISGK IRSSSIRILM GDRVKIEVSR YDSSKGRIIY RLPHKDSKRT EDSKDTEDLK DTKDSKD |
| **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** | 12,431 Da |
| **Sequence Positions** | 1-107, 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 Q6L367 |
| **Species** | Saccharum hybrid (Sugarcane) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for infA recombinant protein** | MBS1343165 is a recombinant protein targeting infA. Also known as Recombinant Saccharum hybrid Translation initiation factor IF-1, chloroplastic (infA). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of infA 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 infA. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 48478804 |
| **NCBI GeneID** | 2843886 |
| **NCBI Accession #** | YP_024411.1 |
| **UniProt Primary Accession #** | Q6L367 |
| **GenBank Nucleotide #** | NC_005878.2 |
| **NCBI Official Full Name** | translation initiation factor 1 |

| | |
|---|---|
| **NCBI Official Symbol** | infA |
| **UniProt Protein Name** | Translation initiation factor IF-1, chloroplastic |
| **Protein Family** | Putative translation initiation factor |
| **UniProt Gene Name** | infA |
| **NCBI Protein Information** | translation initiation factor 1 |
| **UniProt Comments for infA** | One of the essential components for the initiation of protein synthesis. Stabilizes the binding of IF-2 and IF-3 on the 30S subunit to which N-formylmethionyl-tRNA(fMet) subsequently binds. Helps modulate mRNA selection, yielding the 30S pre-initiation complex (PIC). Upon addition of the 50S ribosomal subunit IF-1, IF-2 and IF-3 are released leaving the mature 70S translation initiation complex. |
| **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. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/translation-initiation-factor-if-1-chloroplastic-infa/1343165