Translation Initiation Factor if-1, Chloroplastic (infA) Oryza Sativa Recombinant Protein

PRODUCT OVERVIEW

Product Name	Translation initiation factor IF-1, chloroplastic (infA), Recombinant Protein
Full Product Name	Recombinant Oryza sativa Translation initiation factor IF-1, chloroplastic (infA)
Product Gene Name	infA recombinant protein
Sequence	MTEKKNRREK KNPREAKITF EGLVMEALPN GMFRVRLEND TIILGYISGK IRSSSIRILM GDRVKIEVSR YDSSKGRIIY RLPHKDSKRT EDSKDTEDLK DTKDSKG
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	12,417 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 P0C378
Species	Oryza sativa (Rice)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for infA recombinant protein	MBS1215758 is a recombinant protein targeting infA. Also known as Recombinant Oryza sativa 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 #	11466824
NCBI GeneID	3131394
NCBI Accession #	NP_039420.1
UniProt Primary Accession #	P0C378
UniProt Secondary Accession #	P12135; Q6QXY7; Q6QY51
UniProt Related Accession #	P0C380
GenBank Nucleotide #	NC_001320.1

NCBI Official Full Name	translation initiation factor 1 (plastid)
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.
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