Translation initiation factor IF-1, chloroplastic (infA), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP18480*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Glycine max (Soybean) (Glycine hispida)

Full Product Name
Recombinant Glycine max Translation initiation factor IF-1, chloroplastic (infA)

Product Gene Name
infA recombinant protein

Product Synonym Gene Name
infA

Purity
Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence
AASAAKPDKS GEQKWVHEGL IMESLPNGMF RVRLDNEDLI LGYISGKIRK NYVRILPGDR VKVEVTRYDS SKGRIVYRLR SSTPS

Sequence Positions
54-138, Full length protein

Format
Lyophilized or liquid (Format to be determined during the manufacturing process)

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
15,430 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
Translation initiation factor

NCBI Accession
NP_001237201.1

NCBI GI
351721189

NCBI GenBank Nucleotide
NM_001250272.3

NCBI GeneID

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547999

NCBI Official Full Name
translation initiation factor IF-1, chloroplastic

NCBI Official Symbol
INFA

NCBI Protein Information
translation initiation factor IF-1, chloroplastic

UniProt Gene Name
infA

UniProt Protein Name
Translation initiation factor IF-1, chloroplastic

UniProt Primary Accession
Q94KR7

UniProt Related Accession
Q94KR7

UniProt Comments
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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