

Recombinant human eIF-1A/EIF1 protein

Catalog Number: ATGP0461

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-113aa

UniProt No.

P41567

NCBI Accession No.

NP_005792

Alternative Names

Sui1iso1, Sul1, Protein translation factor SUI1 homolog, ISO1, Eukaryotic translation initiation factor 1, EIF1A, EIF-1, EIF1, A121

PRODUCT SPECIFICATION

Molecular Weight

16.9 kDa (150aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 0.1 M NaCl, and 10% glycerol

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

EIF1, also known as eukaryotic translation initiation factor 1, is a universally conserved translation factor that is necessary for scanning and involved in initiation site selection. This protein promotes the assembly of 48S ribosomal complexes at the authentic initiation codon of a conventional capped mRNA. Recombinant human EIF1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

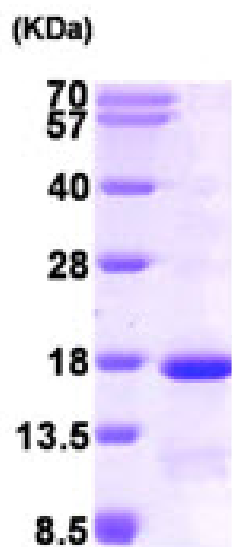
MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWAGSMSA IQNLHSFDPF ADASKGDDLL PAGTEDYIHI
RIQQRNGRKT LTTVQGIADD YDKKKLVKAF KKKFACNGTV IEHPEYGEVI QLQGDQRKNI CQFLVEIGLA KDDQLKVHGF

General References

Dennis MD., et al. (2009) J Biol Chem. 284(31):20615-28.
Pisarev AV., et al. (2007) Cell. 131(2):286-99.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)