Recombinant human eIF-4A3/EIF4A3 protein

Catalog Number: ATGP1334

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-411aa

UniProt No.
P38919

NCBI Accession No.
NP_055555

Alternative Names
Nuclear matrix protein 265, NMP 265, hNMP 265, Fal1, Eukaryotic translation initiation factor 4A3, eukaryotic translation initiation factor 4A isoform 3, Eukaryotic initiation factor 4A-like NUK-34, Eukaryotic initiation factor 4A-III, EIF4AIII, DEAD box protein 48, DEAD (Asp-Glu-Ala-Asp) box polypeptide 48, DDX48, ATP-dependent RNA helicase eIF4A-3, ATP-dependent RNA helicase DDX48

PRODUCT SPECIFICATION

Molecular Weight
49.4 kDa (435aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 30% glycerol, 200mM NaCl

Purity
> 95% 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
EIF4A3 (Eukaryotic initiation factor 4A-III) belongs to the DEAD box helicase family and eIF4A subfamily. DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD), are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure, such as

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translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. EIF4A3 is a component of a splicing-dependent multiprotein exon junction complex (EJC) deposited at splice junction on mRNAs. Recombinant human EIF4A3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

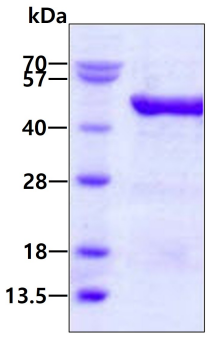
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General References

Chan C.C., et al. (2004) RNA 10:200-209
Li Q, et al. (1999). Mol. Cell. Biol. 19 (11): 7336-46.

DATA

SDS-PAGE



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