

Recombinant human eIF-1AX/EIF1AX protein

Catalog Number: ATGP0713

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-144aa

UniProt No.

P47813

NCBI Accession No.

NP_001403

Alternative Names

Eukaryotic translation initiation factor 4C, Eukaryotic translation initiation factor 1A X-linked, eIF-4C, EIF4C, EIF1AP1, eIF-1A, EIF1A

PRODUCT SPECIFICATION

Molecular Weight

18.6 kDa (164aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 5mM DTT, 200mM NaCl

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

EIF1AX is an essential eukaryotic translation initiation factor. The protein is required for the binding of the 43S complex (a 40S subunit, eIF2/GTP/Met-tRNAⁱ and eIF3) to the 5' end of capped RNA. It seems to be required for maximal rate of protein biosynthesis. And it enhances ribosome dissociation into subunits and stabilizes the binding of the initiator Met-tRNA (I) to 40 S ribosomal subunits. Recombinant human EIF1AX 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

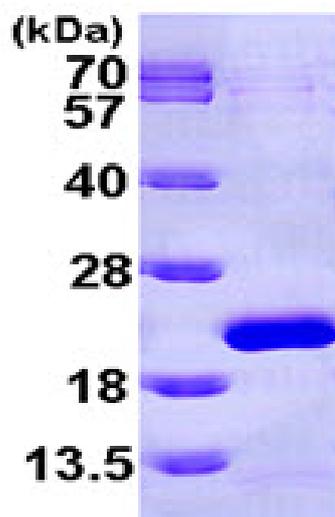
MGSSHHHHHH SSGLVPRGSH MPKNKGKGGK NRRRGKNENE SEKRELVFKE DGQEYAQVIK MLGNGRLEAM
CFDGVKRLCH IRGKLRKKVW INTSDIILVG LRDYQDNKAD VILKYNADEA RSLKAYGELP EHAKINETDT FGPGDDDEIQ
FDDIGDDDED IDDI

General References

Lahn BT., et al. (1997) Science 278(5338):675-80.
Kim S., et al. (2007) Stem Cells Dev. 16(4):537-45.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)