# 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

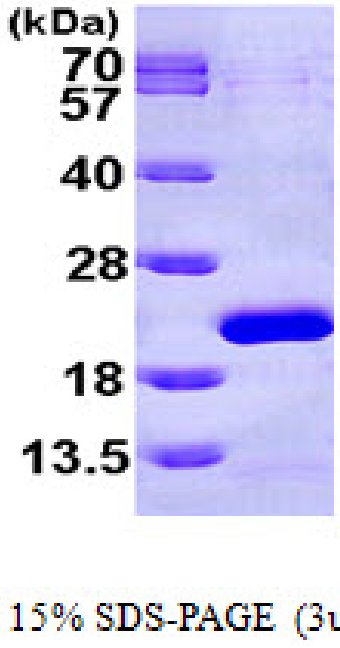
MGSSHHHHHH SSGLVPRGSH MPKNKGKGGK NRRRGKNENE SEKRELVFKE DGQEYAQVIK MLGNGRLEAM CFDGVKRLCH IRGKLRKKVW INTSDIILVG LRDYQDNKAD VILKYNADEA RSLKAYGELP EHAKINETDT FGPGDDDEIQ FDDIGDDDED IDDI

### 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




15% SDS-PAGE (3ug)

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