

# Recombinant human eIF-1AY/EIF1AY protein

Catalog Number: ATGP0902

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-144aa

### UniProt No.

O14602

### NCBI Accession No.

NP\_004672

### Alternative Names

Eukaryotic translation initiation factor 1A Y-linked, Eukaryotic translation initiation factor 1A, Y-linked, eIF-1A Y isoform, eukaryotic translation initiation factor 4C(eIF-4C)

## PRODUCT SPECIFICATION

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### Molecular Weight

18.8 kDa (167aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 100mM NaCl, 20% glycerol

### 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

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### Description

EIF1AY is similar to eukaryotic translation initiation factor 1A (EIF1A). This protein seems to be required for maximal rate of protein biosynthesis. It enhances ribosome dissociation into subunits and is required for the binding of the 43S complex (a 40S subunit, eIF2/GTP/Met-tRNA<sub>i</sub> and eIF3) to the 5' end of capped RNA. Recombinant human EIF1AY protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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### Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSMPKNKGK GGKNRRRGKN ENESEKRELV FKEDGQEYQAQ VIKMLGNGRL  
EALCFDGVKR LCHIRGKLRK KVVINTSDII LVGLRDYQDN KADVILKYNA DEARSLKAYG ELPEHAKINE TDTFGPGDDD  
EIQFDDIGDD DEDIDDI

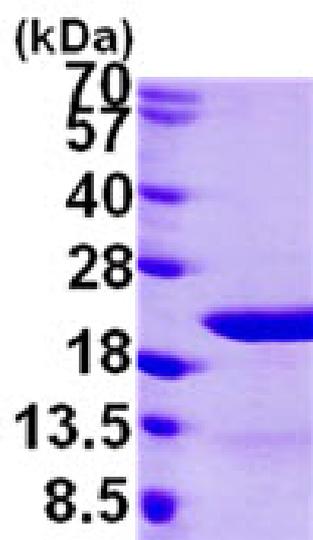
### General References

Mahbybyl Huq AH., et al. (2009) J Child Neurol. 24(10):1258-61  
Page DC., et al (1997) Science. 278(5338):675-80.

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)