Recombinant human eIF-1AY/EIF1AY protein

Catalog Number: ATGP0902

PRODUCT INFORMATION

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

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

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-tRNAi 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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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Amino acid Sequence

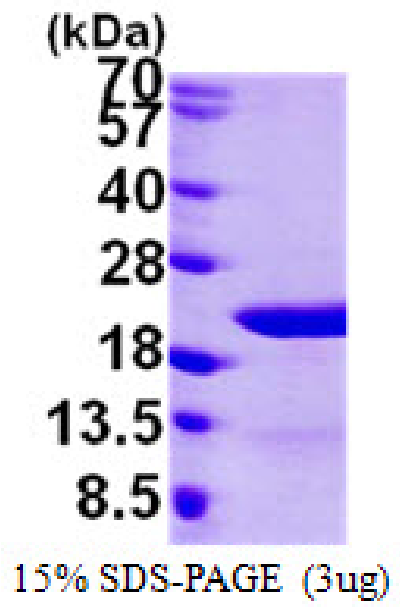
MGSSHHHHHH SSGLVPRGSH MGSMPKNKGK GGKNRRRGKN ENESEKRELV FKEDGQEYAQ VIKMLGNGRL EALCFDGVKR LCHIRGKLRK KVWINTSDII LVGLRDYQDN KADVILKYNA DEARSLKAYG ELPEHAKINE TDTFGPGDDD EIQFDDIGDD DEDIDDI

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

SDS-PAGE



15% SDS-PAGE (3ug)

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