

**EIF1AY, 1-144aa, Human, His tag, E.coli**

**Cat.NO.: TP01990**

3th Edition

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

**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<sup>i</sup> 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.

**Form:**Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1 mM DTT,100 mM NaCl, 20% Glycerol

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

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSMPPKNGKGGKNRRRGKNENESEKRELVFKEDGGQEYAQVIKMLGNRLEAL  
CFDGVKRLCHIRGKLRKKVWINTSDIILVGLRDYQDNKADVILKYNADERSLKAYGELPEHAKINETDTFGPGDDDE  
IQFDDIGDDDEDIDDI

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.