

**EIF1AX, 1-144aa, Human, His tag, E.coli**

**Cat.NO.: TP01989**

3th Edition

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

**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-tRNA<sub>i</sub> 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.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 40% glycerol,5mM DTT, 200mM NaCl

**Molecular Weight:**18.6kDa (164aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMPKNGKGGKNNRRRGKNENESEKRELVFKEDGQEYAQVIKMLGNRLEAMCFD  
GVKRLCHIRGKLRKKVWINTSDIILVGLRDYQDNKADVILKYNADARSCLKAYGELPEHAKINETDTFGPGDDDEIQF  
DDIGDDEDEDIDI

**Purity:**> 95% by HPLC

**Concentration:**1 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.