

**EIF2S1, 1-315aa, Human, His tag, E.coli**

**Cat.NO.: TP01993**

3th Edition

**Synonyms:**Eukaryotic translation initiation factor 2 subunit 1, EIF-2, EIF-2A, EIF-2alpha, EIF2, EIF2A

**Description:**EIF2S1, also known as eIF2 $\alpha$ , is the alpha subunit of the translation initiation factor eIF2 complex which catalyzes the first regulated step of protein synthesis initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. The phosphorylation state of eIF2S1 controls the rate of tRNA translation. When eIF2 $\alpha$  is not phosphorylated, translation occurs at a normal rate.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl

**Molecular Weight:**38.2 kDa (335aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMPGLSCRFYQHKFPEVEDVVMVNVRSIAEMGAYVSLLEYNNIEGMILLSELSRRRI  
RSINKLIRIGRNECVVIRVDKEKGYIDLSKRRVSPEEAIKCEDKFTKSKTVYSILRHVAEVLEYTKDEQLESLEFQRTA  
WVFDDKYKRPYGAYDAFKHAVSDPSILDSLNLNEDEREVLINNINRRLTPQAVKIRADIEVACYGYEGIDAVKEALR  
AGLNCSTENMPIKINLIAPPRYVMTTTLTERTEGLSVLSQAMAVIKEIEEKRGVFNVMQEPKVVTDTDETALARQME  
RLERENAEVDGDDDAEEMEAKAED

**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.