

Product datasheet for TP300368

eIF2 alpha (EIF2S1) (NM_004094) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human eukaryotic translation initiation factor 2, subunit 1 alpha, 35kDa (EIF2S1), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200368 protein sequence Red=Cloning site Green=Tags(s)

MPGLSCRFYQHKFPEVEDVMMVNVRSIAEMGAYVSLLEYNNIEGMILLSELSRRRIRSINKLIRIGRNEC
VVIRVDKEKGYIDLKRRVSPPEAIKCEDKFTKSKTVYSILRHVAEVLEYTKDEQLESFQRTAWVFDD
KYKRPGYGAYDAFKHAVSDPSILDSDLNEDEREVLINNINRRLTPQAVKIRADIEVACYGYEGIDAVKE
ALRAGLNCSTENMPIKINLIAPPRYVMTTTLERTEGLSVLSQAMAVIKEKIEEKRGVFNVQMEPKVTD
TDETELARQMERLERENAEVDGDDDAEEMEAKAED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	35.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004085
Locus ID:	1965



[View online »](#)

UniProt ID: [P05198, Q53XC0](#)

RefSeq Size: 4165

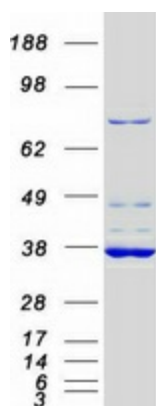
Cytogenetics: 14q23.3

RefSeq ORF: 945

Synonyms: EIF-2; EIF-2A; EIF-2alpha; EIF2; EIF2A

Summary: The translation initiation factor EIF2 catalyzes the first regulated step of protein synthesis initiation, promoting the binding of the initiator tRNA to 40S ribosomal subunits. Binding occurs as a ternary complex of methionyl-tRNA, EIF2, and GTP. EIF2 is composed of 3 nonidentical subunits, the 36-kD EIF2-alpha subunit (EIF2S1), the 38-kD EIF2-beta subunit (EIF2S2; MIM 603908), and the 52-kD EIF2-gamma subunit (EIF2S3; MIM 300161). The rate of formation of the ternary complex is modulated by the phosphorylation state of EIF2-alpha (Ernst et al., 1987 [PubMed 2948954]).[supplied by OMIM, Feb 2010]

Product images:



Coomassie blue staining of purified EIF2S1 protein (Cat# TP300368). The protein was produced from HEK293T cells transfected with EIF2S1 cDNA clone (Cat# [RC200368]) using MegaTran 2.0 (Cat# [TT210002]).