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32-3731: EIF2S1 Recombinant Protein

Alternative Name :	Eukaryotic translation initiation factor 2 subunit 1,Eukaryotic translation initiation factor 2 subunit alpha,eIF-2-alpha,EIF-2alpha,EIF-2A,EIF2,EIF-2,EIF2A,EIF-2A.

Description

Source : Escherichia Coli. EIF2S1 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 335 amino acids (1-315 a.a.) and having a molecular mass of 38.2 kDa. The EIF2S1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. EIF2S1 participates in the premature steps of protein synthesis by forming a ternary complex with GTP and initiator tRNA which binds to a 40S ribosomal subunit, followed by mRNA binding to create a 43S pre-initiation complex. Junction of the 60S ribosomal subunit to form the 80S initiation complex is preceded by hydrolysis of the GTP bound to eIF-2 and release of an eIF-2-GDP binary complex. In order for eIF-2 to recycle and catalyze another round of initiation, the GDP bound to eIF-2 should exchange with GTP by way of a reaction catalyzed by eIF-2B.

Product Info

Amount :	10 µg
Purification :	Greater than 85% as determined by SDS-PAGE.
Content :	0.5mg/ml solution containing 20mM Tris-HCl pH-8, 0.1M NaCl & 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MPGLSCRFYQ HKFPEVEDVV MVNVRSIAEM GAYVSLLEYN NIEGMILLSE LSRRRIRSIN KLIRIGRNEC VVVIRVDKEK GYIDLSKRRV SPEEAIKCED KFTKSKTVYS ILRHVAEVLE YTKDEQLESL FQRTAWVFDD KYKRPGYGAY DAFKHAVSDP SILDSLDLNE DEREVLINNI NRRLTPQAVK IRADIEVACY GYEGIDAVKE ALRAGLNCST ENMPIKINLI APPRYVMTTT TLERTEGLSV LSQAMAVIKE KIEEKRGVFN VQMEPKVVTD TDETELARQM ERLERENAEV DGDDDAEEME AKAED