

32-3730: EIF2B1 Recombinant Protein

Alternative Name : Translation initiation factor eIF-2B subunit alpha,eIF-2B GDP-GTP exchange factor subunit alpha,EIF2B1,EIF2BA,EIF2B.

Description

Source : Escherichia Coli. EIF2B1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 325 amino acids (1-305 a.a.) and having a molecular mass of 35.8kDa. EIF2B1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. EIF2B1 is one of five subunits of eukaryotic translation initiation factor 2B (EIF2B), which is a GTP exchange factor for eukaryotic initiation factor 2 and an essential regulator for protein synthesis. Phosphorylation of eIF2 inhibits GEF activity of EIF2B, an inhibition which requires the eIF2B1 subunit. Defects in eIF2B1 are a cause of leukoencephalopathy with vanishing white matter (VWM), a brain disease which is characterized by head trauma and motor deterioration.

Product Info

Amount : 5 µg
Purification : Greater than 90.0% as determined by SDS-PAGE.
Content : The EIF2B1 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.1M NaCl.
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 MDDKELIEYF KSQMKEDPDM ASAVAAIRTL LEFLKRDKGE TIQGLRANLT SAIETLCGVD SSVAVSSGGE LFLRFISLAS LEYSDYSKCK KIMIERGELF LRRISLSRNK IADLCHTFIK DGATILTHAY SRVLRVLEA AVAAKKRFSV YVTESQPDLS GKKMAKALCH LNVPVTVVLD AAVGYIMEKA DLVIVGAEGV VENGGIINKI GTNQMAVCAK AQNKPFYVVA ESFKFVRLFP LNQQDVPDKF KYKADTLKVA QTQQLKEEH PWVDYTAPSL ILLFTDLGV LTPSAVSDEL IKLYL.