

## 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 SSSLVPRGSH MDDKELIEYF KSQMKEDPDM ASAVAAIRTL LEFLKRDKGE TIQGLRANLT SAIETLCGV D SSVAVSSGGE LFLRFISLAS LEYSDYSKCK KIMIERGELF LRRISLSRNK IADLCHTFIK DGATILTHAY SRVLRVLEA AVAAKKRFSV YVTESQPDLS GKKMAKALCH LNVPVTVVLD AAVGYIMEKA DLVIVGAEGV VENGGIINKI GTNQMAVCAK AQNKPFYVVA ESFKFVRLFP LNQQDVPDKF KYKADTLKVA QTGQDLKEEH PWVDYTAPSL ILLFTDLGV LTPSAVSDEL IKLYL.

