Recombinant Human EIF2B1, His-tagged

Cat. No. EIF2B1-3511H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EIF2B1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography (1-305aa).
Species	Human
Source	E.coli
Description	EIF2B1 is one of five subunits of eukaryotic translation initiation factor 2B (EIF2B), 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 that requires the eIF2B1 subunit. Defects in eIF2B1 are a cause of leukoencephalopathy with vanishing white matter (VWM), a brain disease that is characterized by head trauma and motor deterioration.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl
Molecular Weight	35.8 kDa(325aa) confirmed by MALDI-TOF
Purity	> 90% by SDS - PAGE
Concentration	0.5 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MDDKELIEYF KSQMKEDPDM ASAVAAIRTL LEFLKRDKGE TIQGLRANLT SAIETLCGVD SSVAVSSGGE LFLRFISLAS LEYSDYSKCK KIMIERGELF LRRISLSRNK IADLCHTFIK DGATILTHAY

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	SRVVLRVLEA AVAAKKRFSV YVTESQPDLS GKKMAKALCH LNVPVTVVLD AAVGYIMEKA DLVIVGAEGV VENGGIINKI GTNQMAVCAK AQNKPFYVVA ESFKFVRLFP LNQQDVPDKF KYKADTLKVA QTGQDLKEEH PWVDYTAPSL ITLLFTDLGV LTPSAVSDEL IKLYL
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.

GENE INFORMATION

Gene Name	EIF2B1 eukaryotic translation initiation factor 2B, subunit 1 alpha, 26kDa [Homo sapiens]
Synonyms	eukaryotic translation initiation factor 2B, subunit 1 alpha, 26kD; EIF2B; EIF2BA; MGC117409; MGC125868; MGC125869; EIF2B1; translation initiation factor eIF-2B subunit alpha; eIF-2B GDP-GTP exchange factor subunit alpha
Gene ID	1967
mRNA Refseq	NM_001414
Protein Refseq	NP_001405
UniProt ID	Q14232
Chromosome Location	12q24.31
Function	GTP binding; enzyme regulator activity; protein binding; contributes_toguanyl-nucleotide exchange factor activity; contributes_to translation initiation factor activity

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