

EIF2B1, 1-305aa, Human, His tag, E.coli

Cat.NO.: TP01992

3th Edition

Synonyms:EIF-2B, EIF-2Balpha, EIF2B, EIF2BA, MGC117409, MGC125868, MGC125869

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

Sequences:

MGSSHHHHHSSGLVPRGSHMDDKELIEYFKSQMKEDPDMASAVAAIRTLLEFLKRDKGETIQGLRANLTSAIETLC
GVDSSVAVSSGGELFLRFISLASLEYSYDYSKCKKIMIERGELFLRRISLSRNKIADLCHTFIKDGATILTHAYSRVVLRV
LEAAVAKKRFSVYVTE SQPDLSGKKMAKALCHLNVPVTVVLDAAVGYIMEKADLVIVGAEGVVENGIIINKIGTNQ
MAVCAKAQNKPFYVVAESFKFVRLFPLNQDVPDKFKYKADTLKVAQTGQDLKEEHPWVDY TAPSLITLLFTDLGV
LTPSAVSDELIKLYL

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.