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AR09964PU-N Human EIF2B1 / EIF2BA (1-305, His-tag) - Purified

Alternate names: Translation initiation factor eIF-2B subunit alpha, eIF-2B GDP-GTP exchange factor subunit alpha

Quantity: 50 µg

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

Background: 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.

Uniprot ID: Q14232

NCBI: NP_001405

GeneID: 1967

Species: Human

Source: E. coli

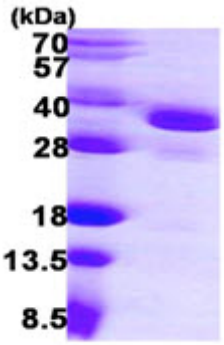
Format:
State: Liquid purified protein
Purity: >90%
Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl

Description: Recombinant human EIF2B1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MDDKELIEYF KSQMKEDPDM ASAVAAIRTL LEFLKRDKGE
TIQGLRANLT SAIETLCGVD SSVAVSSGGE LFLRFISLAS LEYSDYSKCK KIMIERGELF
LRRISLSRNK IADLCHTFIK DGATILTHAY SRVVLRVLEA AVAAKKRFSV YVTESQPDLS
GKKMAKALCH LNVPVTVVLD AAVGYIMEKA DLVIVGAEGV VENGGIINKI GTNQMAVCAK
AQNKPFYVVA ESFKFVRLFP LNQQDVPDKF KYKADTLKVA QTGQDLKEEH PWVDYTAPSL
ITLLFTDLGV LTPSAVSDEL IKLYL
Molecular weight: 35.8 kDa (325aa) confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

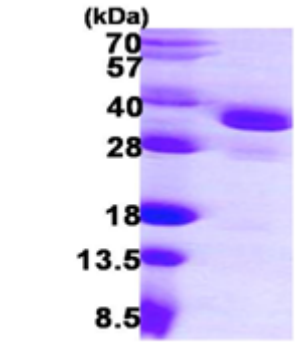
General Readings:
Van der Knaap M.S. et al. (2002) Ann. Neurol 51: 264-270.
Mohammad-Qureshi S.S. et al. (2007) Mol. Cell. Biol. 27: 5225-5234.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human EIF2B1, 1-305 aa, His-tagged



15% SDS-PAGE (3ug)