Recombinant human eIF-2B alpha/EIF2B1 protein

Catalog Number: ATGP1024

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-305aa

UniProt No.
Q14232

NCBI Accession No.
NP_001405.1

Alternative Names
Eukaryotic translation initiation factor 2B subunit alpha, Eukaryotic translation initiation factor 2B subunit 1 alpha 26kDa, EIF-2Balpha, EIF-2B, EIF2BA, EIF2Balpha, Translation initiation factor eIF-2B subunit alpha, eIF-2B GDP-GTP exchange factor subunit alpha

PRODUCT SPECIFICATION

Molecular Weight
35.8 kDa (325aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

Recombinant human eIF-2B alpha/EIF2B1 protein

Catalog Number: ATGP1024

and motor deterioration. Recombinant human EIF2B1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

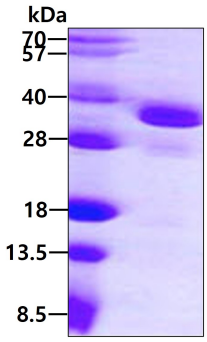
<MGSSHHHHHH SSGLVPRGSH> MDDKELIEYF KSQMKEDPDM ASAVAAIRTL LEFLKRDKGE TIQGLRANLT SAIETLCGVD SSVAVSSGGE LFLRFISLAS LEYSDYSKCK KIMIERGELF LRRISLSRNK IADLCHTFIK DGATILTHAY SRVVLRVLEA AVAAKKRFSV YVTESQPDLS GKKMAKALCH LNVPVTVVLD AAVGYIMEKA DLVIVGAEGV VENGGIINKI GTNQMAVCAK AQNKPFYVVA ESFKFVRLFP LNQQDVPDKF KYKADTLKVA QTGQDLKEEH PWVDYTAPSL ITLLFTDLGV LTPSAVSDEL IKLYL

General References

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.