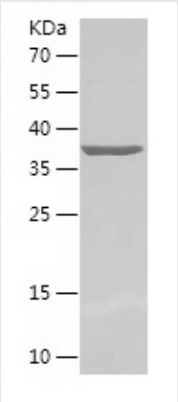
EIF2B2 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	EIF2B2, Recombinant Protein
Full Product Name	Recombinant Human EIF2B2
Product Gene Name	EIF2B2 recombinant protein
Product Synonym Names	eukaryotic translation initiation factor 2B; subunit 2 beta; 39kDa
Host	E Coli
Form/Format	Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose and 0.06% proclin, pH7.4
Purity/Purification	Greater than 90% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	351
Sequence Positions	1-186
OMIM	phenotype 606454
3D Structure	ModBase 3D Structure for P49770
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000 rpm for 1 minute, reconstitute at 200 ug/ml in sterile distilled water by gentle pipetting 2-3 times, don't vortex
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for EIF2B2 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for EIF2B2 recombinant protein	MBS7615758 is a recombinant protein targeting EIF2B2. Also known as Recombinant Human EIF2B2. Host: E Coli.
Other Notes	Small volumes of EIF2B2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of EIF2B2 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EIF2B2. It may not necessarily be applicable to this product.

NCBI GI #	6226858
NCBI GeneID	8892
NCBI Accession #	P49770.3
UniProt Primary Accession #	P49770
UniProt Secondary Accession #	O43201
UniProt Related Accession #	P49770
NCBI Official Full Name	Translation initiation factor eIF-2B subunit beta
NCBI Official Synonym Full Names	eukaryotic translation initiation factor 2B, subunit 2 beta, 39kDa
NCBI Official Symbol	EIF2B2
NCBI Official Synonym Symbols	EIF2B; EIF-2Bbeta
UniProt Protein Name	Translation initiation factor eIF-2B subunit beta
UniProt Synonym Protein Names	S20I15; S20III15; eIF-2B GDP-GTP exchange factor subunit beta
Protein Family	Translation initiation factor
UniProt Gene Name	EIF2B2
UniProt Synonym Gene Names	EIF2BB
UniProt Entry Name	EI2BB_HUMAN
NCBI Protein Information	translation initiation factor eIF-2B subunit beta; S20I15; S20III15; eIF-2B GDP-GTP exchange factor subunit beta
NCBI Summary for EIF2B2	This gene encodes the beta subunit of eukaryotic initiation factor-2B (EIF2B). EIF2B is involved in protein synthesis and exchanges GDP and GTP for its activation and deactivation. [provided by RefSeq, Aug 2011]

UniProt Comments for EIF2B2	eIF2B-beta: eukaryotic translation initiation factor 2B, subunit 5. A translational regulatory protein that functions in the early steps of protein synthesis by catalyzing the exchange of eukaryotic initiation factor 2-bound GDP for GTP. Mutation in EIF2B5 causes childhood ataxia with central nervous system hypomyelination/ vanishing white matter leukodystrophy. Protein type: Cell development/differentiation; RNA-binding; Translation; GEFs; GEFs, misc. Chromosomal Location of Human Ortholog: 14q24.3 Cellular Component: eukaryotic translation initiation factor 2B complex; cytoplasm; cytosol Molecular Function: protein binding; GTP binding; guanyl-nucleotide exchange factor activity; translation initiation factor activity; S-methyl-5-thioribose-1-phosphate isomerase activity; ATP binding Biological Process: myelination; response to peptide hormone stimulus; central nervous system development; translation; cellular response to stimulus; cellular protein metabolic process; ovarian follicle development; methionine salvage; response to heat; translational initiation; response to glucose stimulus; gene expression; oligodendrocyte development; regulation of translational initiation; positive regulation of GTPase activity Disease: Leukoencephalopathy With Vanishing White Matter
Research Articles on EIF2B2	**1.** An Italian patient is described with a c.638A>G mutation in exon 5 of EIF2B2 gene with very slow progressive vanishing white matter disease.
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