FKB1B Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	FKB1B, Recombinant Protein
Full Product Name	Recombinant Human FKB1B
Product Gene Name	FKB1B recombinant protein
Product Synonym Names	12.6 kDa FK506-binding protein; 12.6 kDa FKBP; Calstabin 2; FK506 binding protein 1 like; FK506 binding protein 12.6; FK506 binding protein 1B; FK506 binding protein 1B 12.6 kDa; FK506-binding protein 1B; FKB1B_HUMAN; FKBP 12.6; FKBP 1B; FKBP 1L; FKBP 9; FKBP-12.6; FKBP-1B; FKBP12.6
Host	E coli
Form/Format	Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose, pH7.4
Purity/Purification	Greater than 90% as determined by SDS-PAGE
Preparation and Storage	The lyophilized protein is stable at -20 degree C for up to 1 year, the protein solution can be stored at 2-8 degree C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing 0.1% BSA (make sure BSA will NOT interfere with your experiment) and store in working aliquots at -20 degree C to -80 degree C for 6 months. Avoid repeated freeze/thaw cycle.
Molecular Weight	8,802 Da
Sequence Positions	1-108
OMIM	600620
3D Structure	ModBase 3D Structure for P68106
Species	Human
Tag	N-terminal His-IF2DI
Reconstitution	Centrifuge the vial prior to opening, reconstitute in sterile distilled water or buffer of interest to concentration of 0.1-1mg/ml by gently 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 FKB1B recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for FKB1B recombinant protein	MBS7617232 is a recombinant protein targeting FKB1B. Also known as Recombinant Human FKB1B. Host: E coli.
Other Notes	Small volumes of FKB1B 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FKB1B. It may not necessarily be applicable to this product.

NCBI GI #	4758380
NCBI GeneID	2281
NCBI Accession #	NP_004107.1
UniProt Primary Accession #	P68106

UniProt Secondary Accession #	Q13664; Q16645; Q53TM2; Q9BQ40
UniProt Related Accession #	P68106
GenBank Nucleotide #	NM_004116.3
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase FKBP1B isoform a
NCBI Official Synonym Full Names	FK506 binding protein 1B, 12.6 kDa
NCBI Official Symbol	FKBP1B
NCBI Official Synonym Symbols	OTK4; FKBP1L; PKBP1L; PPIase; FKBP12.6
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase FKBP1B
UniProt Synonym Protein Names	12.6 kDa FK506-binding protein; 12.6 kDa FKBP; FKBP-12.6; FK506-binding protein 1B; FKBP-1B; Immunophilin FKBP12.6; Rotamase; h-FKBP-12
UniProt Gene Name	FKBP1B
UniProt Synonym Gene Names	FKBP12.6; FKBP1L; FKBP9; OTK4; PPIase FKBP1B; 12.6 kDa FKBP; FKBP-12.6; FKBP-1B
UniProt Entry Name	FKB1B_HUMAN
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase FKBP1B; 12.6 kDa FK506-binding protein; 12.6 kDa FKBP; FK506-binding protein 12.6; FK506-binding protein 1B; FKBP-12.6; FKBP-1B; PPIase FKBP1B; calstabin 2; h-FKBP-12; immunophilin FKBP12.6; rotamase
NCBI Summary for FKB1B	The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This encoded protein is a cis-trans prolyl isomerase that binds the immunosuppressants FK506 and rapamycin. It is highly similar to the FK506-binding protein 1A. Its physiological role is thought to be in excitation-contraction coupling in cardiac muscle. There are two alternatively spliced transcript variants of this gene encoding different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for FKB1B	FKBP1B: Has the potential to contribute to the immunosuppressive and toxic effects of FK506 and rapamycin. PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides. Belongs to the FKBP-type PPIase family. FKBP1 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Isomerase; EC 5.2.1.8 Chromosomal Location of Human Ortholog: 2p23.3 Cellular Component: sarcoplasmic reticulum membrane; membrane; cytoplasm; Z disc; cytosol Molecular Function: protein binding; peptidyl-prolyl cis-trans isomerase activity; FK506 binding; cyclic nucleotide binding; calcium channel inhibitor activity; ryanodine-sensitive calcium-release channel activity; receptor binding Biological Process: positive regulation of sequestering of calcium ion; positive regulation of axon regeneration; protein maturation via protein folding; protein peptidyl-prolyl isomerization; cytosolic calcium ion homeostasis; negative regulation of heart rate; response to redox state; release of sequestered calcium ion by sarcoplasmic reticulum into cytosol; T cell proliferation; negative regulation of protein phosphatase type 2B activity; response to vitamin E; smooth muscle contraction; 'de novo' protein folding; response to hydrogen peroxide; insulin secretion; negative regulation of release of sequestered calcium ion into cytosol; action potential propagation; response to glucose stimulus; protein refolding; transmembrane transport
Research Articles on FKB1B	**1.** Sirolimus-FKBP12.6 impairs endothelial barrier function by activation of protein kinase C-alpha and downstream disruption of the p120-VE cadherin interaction in vascular endothelium.
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