

Active Recombinant Human FK506 Binding Protein 1B, 12.6 KDa, His-tagged

Cat. No. FKBP1B-2500H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FKBP1B protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography. MW: 14.2 kDa.
Species	Human
Source	E.coli
ProteinLength	1-108aa
Description	FKBP1B, also known as peptidyl-prolyl cis-trans isomerase FKBP1B, is a member of the immunophilin protein family which plays a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This protein is a cis-trans prolyl isomerase that binds the immunosuppressants FK506 (tacrolimus) and rapamycin (sirolimus). It is highly similar to the FK506-binding protein 1A. Its physiological role is thought to be in excitation-contraction coupling in cardiac muscle.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT.
Bio-activity	Specific activity is >300 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25°C in Tris-Hcl pH8.0 using chymotrypsin.
Molecular Mass	14.2 kDa (130aa), confirmed by MALDI-TOF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MGSSHHHHHH SSGLVPRGSH RSMGVEIETI SPGDGRTPFK KGQTCVVHYT GMLQNGKKFD SSRDRNKPFK FRIGKQEVK GFEEGAAQMS LGQRAKLTCT PDVAYGATGH PGVIPP NATL IFDV ELLNLE
Purity	>90% by SDS-PAGE
Applications	SDS-PAGE
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.
Concentration	0.25 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	FKBP1B FK506 binding protein 1B, 12.6 kDa [Homo sapiens]
Official Symbol	FKBP1B
Synonyms	FKBP1B; FK506 binding protein 1B, 12.6 kDa; FK506 binding protein 1B (12.6 kD) , FKBP1L; peptidyl-prolyl cis-trans isomerase FKBP1B; FKBP9; FKBP12.6; OTK4; PPIase; FKBP-1B; rotamase; FKBP-12.6; h-FKBP-12; calstabin 2; 12.6 kDa FKBP; PPIase FKBP1B; immunophilin FKBP12.6; FK506-binding protein 1B; FK506-binding protein 12.6; 12.6 kDa FK506-binding protein; FKBP1L; PKBP1L;
Gene ID	2281
mRNA Refseq	NM_004116
Protein Refseq	NP_004107

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MIM	600620
UniProt ID	P68106
Chromosome Location	2p23.3
Function	FK506 binding; isomerase activity; peptidyl-prolyl cis-trans isomerase activity; protein binding; receptor binding; contributes_to ryanodine-sensitive calcium-release channel activity;

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