

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

Cat. No. FKBP1B-1522H **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.
Species	Human
Source	E.coli
ProteinLength	130aa
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 25C in Tris-Hcl pH8.0 using chymotrypsin. 1. Prepare 170ul assay buffer into a suitable container and pre-chill on ice before use: The final concentrations are 200 mM Tris-Hcl, pH 8.0, and 20nM chymotrypsin. 2. Add 10ul of recombinant FKBP1B protein with 1ug in assay buffer. 3. Mix by inversion and equilibrate to 1C and monitor the A405nm until the value is

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constant using a spectrophotometer. 4. Add 20ul pre-chilled 5mM suc-AAFP-pNA. (Substrate was dissolved in TFE that contained 460mM LiCl to a concentration of 3 mM) 5. Record the increase in A405 nm for 30 minutes at 25°C.

Molecular Mass 14.2 kDa, confirmed by MALDI-TOF.

Purity > 90% by 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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