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## Product Data Sheet

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Product Name: FKBP1B Human  
 Cat. No.: GP21627  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Peptidyl-prolyl cis-trans isomerase FKBP1B; PPlase FKBP1B; 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; FKBP1B; FKBP12.6; FKBP1L; FKBP9; OTK4.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH RSMGVEIETI SPGDGRTFPK KGQTCVVHYT GMLQNGKKFD SSRDRNKPFK FRIGKQEVIK GFEEGAAQMS LGQRAKLTCT PDVAYGATGH PGVIPPATL IFDVLLNLE.		
Formulation	The FKBP1B solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT.		

### Introduction

Peptidyl-prolyl cis-trans isomerase FKBP1B (FKBP1B) belongs to the immunophilin protein family which has a role in immunoregulation and basic cellular processes involving protein folding and trafficking. FKBP1B is a cis-trans prolyl isomerase which binds the immunosuppressants FK506 and rapamycin. FKBP1B is extremely similar to the FK506-binding protein 1A. The physiological role of FKBP1B is thought to be in excitation-contraction coupling in cardiac muscle.

### Biological 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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

FKBP1B Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 130 amino acids (1-108) and having a molecular mass of 14.2kDa. FKBP1B is fused to a 22 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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