

Recombinant human FKBP12.6/FKBP1B protein

Catalog Number: ATGP1266

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-108aa

UniProt No.

P68106

NCBI Accession No.

NP_004107

Alternative Names

FKBP prolyl isomerase 1B, Peptidyl-prolyl cis-trans isomerase FKBP1B, PPIase 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, FKBP12.6, FKBP1L, FKBP9, OTK4, Calstabin 2

PRODUCT SPECIFICATION

Molecular Weight

14.1kDa (130aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Biological Activity

Specific activity is > 800nmol/min/mg, and is defined as the amount of enzyme cleaves 1nmole of suc-AAPF-pNA per minute at 37C in Tris-HCl pH 8.0 using chymotrypsin.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

FKBP1B, also known as peptidyl-prolyl cis-trans isomerase FKBP1B, is a member of the immunophilin protein

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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. Recombinant human FKBP1B protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

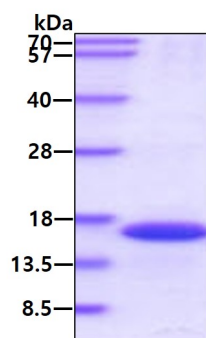
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General References

Arakawa H., et al. (1994) *Biochem. Biophys. Res.* 200:836-843
Deivanayagam C.C., et al. (2000) *Acta Crystallogr. D* 56:266-271

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.