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## Recombinant human FKBP12/FKBP1A protein

Catalog Number: ATGP0290

## **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

1-108aa

#### **UniProt No.**

P62942

#### **NCBI Accession No.**

NP 463460.1

#### **Alternative Names**

FKBP prolyl isomerase 1A, FKBP1, FK506 binding protein 1a 12kDa, PPlase FKBP1A, Rotamase, 12 kDa FKBP, FK506 binding protein 1, FK506 binding protein 1A 12kDa, Immunophilin FKBP12, FK506 binding protein T cell 12 kD, FK506 binding protein 12, FKBP 12, FKBP12 Exip3, FKBP12C, Peptidyl-prolyl cis-trans isomerase, PKCl2, PPlase, Protein kinase C inhibitor 2, calstabin 1, Rotamase

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

14.1 kDa (128aa) confirmed by MALDI-TOF

## Concentration

1mg/ml (determined by Bradford assay)

### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 1mM DTT, 10% glycerol

## **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### **Biological Activity**

Specific activity is > 800nmol/min/mg, and is defined as the amount of enzyme that 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.



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## **BACKGROUND**

## **Description**

FK506 binding protein 1a, also known as FKBP12, belongs to the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. FKBP12 also plays a role in intracellular calcium regulation by associating with three types of calcium release channel complexes, cardiac and skeletal ryanodine receptors and the inositol 1, 4, 5-trisphosphate receptor. It interacts with several intracellular signal transduction proteins including type I TGF-beta receptor. Recombinant human FKBP12, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

## **Amino acid Sequence**

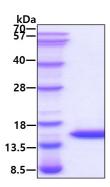
<MGSSHHHHHH SSGLVPRGSH> MGVQVETISP GDGRTFPKRG QTCVVHYTGM LEDGKKFDSS RDRNKPFKFM LGKQEVIRGW EEGVAQMSVG QRAKLTISPD YAYGATGHPG IIPPHATLVF DVELLKLE

#### **General References**

Jayaraman T., et al. (1992). J Biol Chem. 267(14):9474-7 Siekierka JJ., et al. (1990). J Biol Chem. 265(34):21011-5

## **DATA**

#### **SDS-PAGE**



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

