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# Recombinant mouse FKBP12/FKBP1A protein

Catalog Number: ATGP3084

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

1-108aa

#### UniProt No.

P26883

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

NP 032045

#### **Alternative Names**

Peptidyl-prolyl cis-trans isomerase FKBP1A, PPlase FKBP1A, 12 kDa FK506-binding protein (12 kDa FKBP; FKBP-12), Calstabin-1, FK506-binding protein 1A (FKBP-1A), Immunophilin FKBP12, Rotamase

#### **PRODUCT SPECIFICATION**

### **Molecular Weight**

14.4 kDa (132aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol, 1mM DTT

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

#### **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**

Fkbp1a also known as peptidyl-prolyl cis-trans isomerase FKBP1A belongs to the immunophilin protein family, which plays a role in immunoregulation and basic cellular processes involving protein folding and trafficking. Fkbp1a 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



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mouse Fkbp1a, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

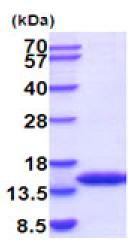
MGSSHHHHHH SSGLVPRGSH MGSHMGVQVE TISPGDGRTF PKRGQTCVVH YTGMLEDGKK FDSSRDRNKP FKFTLGKQEV IRGWEEGVAQ MSVGQRAKLI ISSDYAYGAT GHPGIIPPHA TLVFDVELLK LE

#### **General References**

Chen H., et al. (2013) Development 140 (9), 1946-1957

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)