

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, PPIase 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

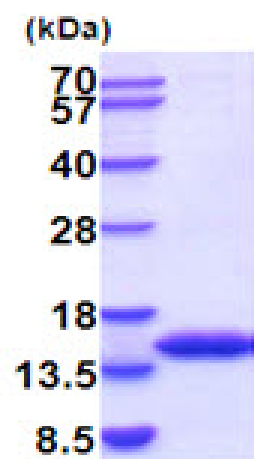
MGSSHHHHHHH SSGLVPRGSH MGSHMGVQVE TISPGDGRTF PKRGQTCVVH YTGMLLEDGKK FDSSRDRNKP
FKFTLGKQEV IRGWEEGVAQ MSVGQRAKLI ISSDYAYGAT GHPGIIPPHA TLVFDVELLK LE

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)