

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, PKCI2, 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

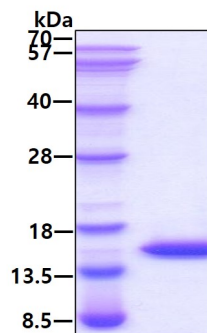
General References

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.