

Recombinant human FKBP52/FKBP4 protein

Catalog Number: ATGP0303

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-459aa

UniProt No.

Q02790

NCBI Accession No.

NP_002005.1

Alternative Names

FK506 binding protein 4, FK506 binding protein 4 52 kDa FK506 binding protein, FKBP 4, FKBP 52, FKBP 59, HBI, Hsp 56, HSP binding immunophilin, p52, p59 protein, Peptidylprolyl cis trans isomerase, PPlase, Rotamase, T cell FK506 binding protein 59kD

PRODUCT SPECIFICATION

Molecular Weight

53.9 kDa (479aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

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

Biological Activity

Specific activity is > 700nmol/min/mg, and is defined as the amount of 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

FKBP4, also known as FKBP52, is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. It is a component of unactivated mammalian steroid receptor complexes and may play a role in the intracellular trafficking of hetero-oligomeric forms of the steroid hormone receptors. It interacts with interferon regulatory factor-4 and plays an important role in immunoregulatory gene expression in B and T lymphocytes. Recombinant human FKBP4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

Amino acid Sequence

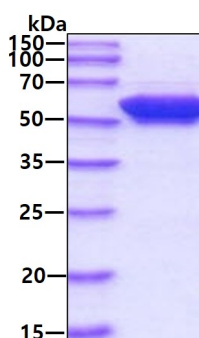
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DRVHVHYTGW LLDGTFKFDSS LDRKDKFSFD LGKGEVIKAW DIAIATMKVG EVCHITCKPE YAYGSAGSPP KIPP NATLVF
EVELFEFKGE DLTEEDGGI IRIQTRGEG YAKPNEGAIV EVALEGYYKD KLFDQRELRF EIGEGENLDL PYGLERAIQR
MEKGEHSIVY LKPSYAFGSV GKEKFQIPP AELKYELHLK SFKAKESWE MNSEKLEQS TIVKERGT VY FKEGKYKQAL
LQYKKIVSWL EYESSFSNEE AQKAQALRLA SHLNLAMCHL KLQAFSAIE SCNKALELDS NNEKGLFRRG EAH LAVND FE
LARADFQKVL QLYPNNKAAK TQLAVCQQR I RRQLAREKKL YANMFERLAE EENKAKAEAS SGDHPTDTEM KEEQKSNTAG
SQSQVETEA

General References

Ostrow KL., et al. (2009) Clin Cancer Res. 15(4):1184-91
Ma D., et al. (2008) J Biol Chem. 283(38):25963-70

DATA

SDS-PAGE



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