

# Recombinant human FKBP52/FKBP4 protein

Catalog Number: ATGP0303

## PRODUCT INFORMATION

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### 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, PPIase, Rotamase, T cell FK506 binding protein 59kD

## PRODUCT SPECIFICATION

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### 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

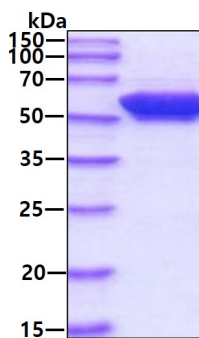
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DRVVHYTGW LLDGTFKFDSS LDRKDKFSFD LGKGEVIKAW DIAIATMKVG EVCHITCKPE YAYGSAGSPP KIPP NATLVF  
EVELFEFKGE DLTEEDGGI IRIQTRGEG YAKPNEGAIV EVALEGGYKD KLFQDRELRF EIGEGENLDL PYGLERAIQR  
MEKGEHSIVY LKPSYAFGSV GKEKFIQPPN AELKYELHLK SFEKAKESWE MNSEKLEQS TIVKERGT VY FKEGKYKQAL  
LQYKKIVSWL EYESSFSNEE AQKAQALRLA SHLNLAMCHL KLQAFSAIE SCNKALELDS NNEKGLFRRG EAHLAVNDFE  
LARADFQKVL QLYPNNKAAK TQLAVCQORI 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.