

# Human Recombinant FKBP4

**CATALOG #:** 6343-100 100 µg

**ALTERNATE NAMES:** FK506 binding protein 6, FKBP52, FKBP59, HBI, Hsp56, p52, PPIase

**SOURCE:** E.Coli

**PURITY:** > 90% by SDS - PAGE

**MOL. WEIGHT:** 53.9 kDa (479 aa, 1-459 aa + NT His Tag)

**FORMULATION:** 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.

**ENDOTOXIN LEVEL:** < 1.0 EU per 1 µg of protein (determined by LAL method).

**STORAGE CONDITIONS:**

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**DESCRIPTION:**

FKBP4 is part of the immunophilin protein family, which takes part in immunoregulation and necessary cellular processes concerning protein folding and trafficking. It is a cis-trans prolyl isomerase that connects to the immunosuppressants FK506 and rapamycin. FKBP4 has high structural and functional similarity to FKBP1A, although, FKBP4 does not have immunosuppressant activity when complexed with FK506. FKBP4 interacts with interferon regulatory factor-4 and is involved in immunoregulatory gene expression in B and T lymphocytes. FKBP4 is known to connect with phytanoyl-CoA alpha-hydroxylase. FKBP4 associates with HSP90 & HSP70 thus takes part in the intracellular trafficking of hetero-oligomeric forms of the steroid hormone receptors. FKBP4 highly associates with adeno-associated virus type 2 vectors (AAV) resulting in a considerable increase in AAV-mediated transgene expression in human cell lines. FKBP4 is involved in the optimal use of AAV vectors in human gene therapy.

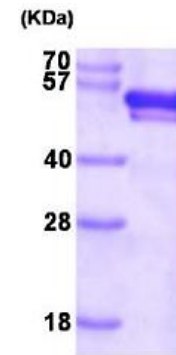
**AMINO ACID SEQUENCE:**

MGSSHHHHHH SSGLVPRGSH MTAEMKATE SGAQSAPLPM EGVDISPKQD  
 EGVLLKVIKRE GTGTEPMIG DRVVFHYTGW LLDGTFKFDSS LDRKDKFSFD LGKGEVIKAW  
 DIAIATMKVG EVCHITCKPE YAYGSAGSPP KIPP NATLVF EVELFEFKGE DLTEEDGGI

IRRIQTRGEG YAKPNEGAIV EVALEGGYKD KLFDQRELRF EIGEGENLDL PYGLERAIQR  
 MEKGEHSIVY LKPSYAFGSV GKEKFQIPPN AELKYELHLK SFEKAKESWE MNSEEKLEQS  
 TIVKERGTVY FKEGKYKQAL LQYKKIVSWL EYESSFSNEE AQKAQALRLA SHLNLMACHL  
 KLQAFSAAIE SCNKALELDS NNEKGLFRRG EAHLAVNDFE LARADFQKVL QLYPNKAAK  
 TQLAVCQQR I RRQLAREKKL YANMFERLAE EENKAKAEAS SGDHTDTEM  
 KEEQKSNTAG SQSQVETEA

**BIOLOGICAL ACTIVITY:**

Specific activity is > 300 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1 µmole of suc-AAFP-pNA per minute at 25°C in Tris HCl pH 8.0 using chymotrypsin.



15% SDS-PAGE (3µg)

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**RELATED PRODUCTS:**

- FKBP12 Antibody (Cat. No. 3635-100)
- FKBP12 Blocking Peptide (Cat. No. 3635BP-50)
- FKBP38 Antibody (Cat. No. 3666-100)
- FKBP38 Blocking Peptide (Cat. No. 3666BP-50)
- FKBP52/Hsp56 Antibody (Cat. No. 3880-100)
- FKBP52/Hsp56 Blocking Peptide (Cat. No. 3880BP-50)
- Human recombinant FKBP1a (Cat. No. 6340-100)
- Human recombinant FKBP1B (Cat. No. 6341-100)
- Human recombinant FKBP3 (Cat. No. 6342-100)
- Human recombinant FKBP6 (Cat. No. 6344-100)
- Human recombinant FKBP4 (Cat. No. 6343-100)
- Human recombinant FKBP5 (Cat. No. 6345-100)

**FOR RESEARCH USE ONLY! Not to be used in humans.**

