

Recombinant Human FKBP4, His-tagged

Cat. No. FKBP4-28339TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human FKBP52 fused to His-tag at N-terminus; amino acids 1-459 , 53.9kDa.
Species	Human
Source	E.coli
ProteinLength	1-459 a.a.
Description	The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. This encoded protein is a cis-trans prolyl isomerase that binds to the immunosuppressants FK506 and rapamycin. It has high structural and functional similarity to FK506-binding protein 1A (FKBP1A), but unlike FKBP1A, this protein does not have immunosuppressant activity when complexed with FK506. It interacts with interferon regulatory factor-4 and plays an important role in immunoregulatory gene expression in B and T lymphocytes. This encoded protein is known to associate with phytanoyl-CoA alpha-hydroxylase. It can also associate with two heat shock proteins (hsp90 and hsp70) and thus may play a role in the intracellular trafficking of hetero-oligomeric forms of the steroid hormone receptors. This protein correlates strongly with adeno-associated virus type 2 vectors (AAV) resulting in a significant increase in AAV-mediated transgene expression in human cell lines. Thus this encoded protein is thought to have important implications for the optimal use of AAV vectors in human gene therapy. The human genome contains

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	several non-transcribed pseudogenes similar to this gene.
Conjugation	HIS
Tissue specificity	Widely expressed.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MTAEEMKATE SGAQSAPLPM EGVDISPKQD EGVLKVIKRE GTGTEMPMIG DRVHVHYTGW LLDGTKFDSS LDRKDKFSFD LGKGEVIKAW DIAIATMKVG EVCHITCKPE YAYGSAGSPP KIPP NATLVF EVELFEFKGE DLTEEDGGI IRRIQTRGEG YAKPNEGAIV EVALEGYYKD KLFDQRELRF EIGEGENLDL PYGLERAIQR MEKGEHSIVY LKPSYAFGSV GKEKFQIPPN AELKYELHLK SFEKAKESWE MNSEEKLEQS TIVKERGTVY FKEGKYKQAL LQYKKIVSWL EYESSFSNEE AQKAQALRLA SHLNLAMCHL KLQAFSAAIE SCNKALELDS NNEKGLFRRG EAHLAVNDFE LARADFQKVL QLYPNNAKAAK TQLAVCQQRI RRQLAREKKL YANMFERLAE EENKAKAEAS SGDHPDTEM KEEQKSNTAG SQSQVETEA
Sequence Similarities	Contains 2 PPlase FKBP-type domains.Contains 3 TPR repeats.
Full Length	Full L.

GENE INFORMATION

Gene Name	FKBP4 FK506 binding protein 4, 59kDa [Homo sapiens]
Official Symbol	FKBP4
Synonyms	FKBP4; FK506 binding protein 4, 59kDa; FK506 binding protein 4 (59kD); peptidyl-prolyl cis-trans isomerase FKBP4; FKBP52; FKBP59;
Gene ID	2288
mRNA Refseq	NM_002014
Protein Refseq	NP_002005
MIM	600611
Uniprot ID	Q02790
Chromosome Location	12p13.33
Pathway	Coregulation of Androgen receptor activity, organism-specific biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem;
Function	ATP binding; FK506 binding; FK506 binding; GTP binding; glucocorticoid receptor binding;

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