

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

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## GENE INFORMATION

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

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