

Recombinant Human FKBP4 protein, His & GST-tagged

Cat. No. FKBP4-1267H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FKBP4 aa. (Thr2~Ala459 (Accession # Q02790) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Thr2~Ala459
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.

Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 81.7kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 5.4.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

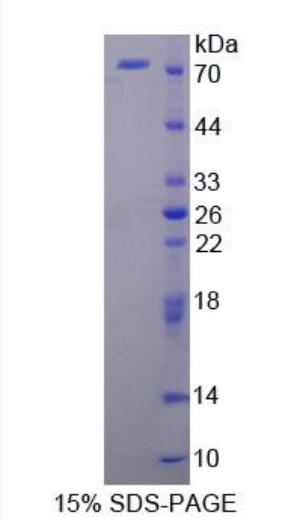
GENE INFORMATION

Gene Name FKBP4 FK506 binding protein 4 [Homo sapiens (human)]

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Official Symbol	FKBP4
Synonyms	FKBP4; FK506 binding protein 4; HBI; p52; Hsp56; FKBP51; FKBP52; FKBP59; PPIase; peptidyl-prolyl cis-trans isomerase FKBP4; FK506 binding protein 4, 59kDa; HSP binding immunophilin; T-cell FK506-binding protein, 59kD; peptidylprolyl cis-trans isomerase; rotamase
Gene ID	2288
mRNA Refseq	NM_002014.3
Protein Refseq	NP_002005.1
UniProt ID	Q02790
SDS-PAGE	 15% SDS-PAGE