

Recombinant Human FKBP4 Protein, His and PA-tagged

Cat. No. FKBP4-818H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant human FKBP4 protein with His and PA tag was expressed in HEK293.

Species Human

Source HEK293

ProteinLength 459

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 several non-transcribed pseudogenes similar to this gene.

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Form	Lyophilized
Molecular Mass	55.1 kDa
AA Sequence	MTAEEMKATESGAQSAPLPMEGVDISPKQDEGVLKVIKREGTGTEMPMIGDRVFVH YTGWLLDGTKFDSSLDRKDKFSFDLGKGEVIKAWDIAIATMKVGEVCHITCKPEYAY GSAGSPPKIPP NATLVFEVELFEFKGEDLTEEEDGGIIRRIQTRGEGYAKPNEGAIVE VALEGYKDKLFDQRELRFEIGEGENLDLPYGLERAIQRMEKGEHSIVYLKPSYAFG SVGKEKFQIPPNAELKYELHLKSF EKAKESWEMNSEEKLEQSTIVKERGTVYFKEGK YKQALLQYKKIVSWLEYESSFSNEEAQKAQALRLASHLNLAMCHLKLQAFSAAIESC NKALELDSNNEKGLFRRGEAHLAVNDFELARADFQKVLQLYPNNKAAKQLAVCQQ RIRRQLAREKKLYANMFERLAEEENKAKAEASSGDHPTDTEMKEEQKSNTAGSQSQ VETEA
Purity	> 98%
Applications	Migration Assay; WB; Biochemical Assay;
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade.
Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific

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instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name [FKBP4 FK506 binding protein 4, 59kDa \[Homo sapiens \(human\) \]](#)

Official Symbol [FKBP4](#)

Synonyms [FKBP4](#); [FK506 binding protein 4, 59kDa](#); [FK506 binding protein 4 \(59kD\)](#); [peptidyl-prolyl cis-trans isomerase FKBP4](#); [FKBP52](#); [FKBP59](#); [rotamase](#); [HSP binding immunophilin](#); [51 kDa FK506-binding protein](#); [FK506-binding protein 4 \(59kD\)](#); [T-cell FK506-binding protein, 59kD](#); [peptidylprolyl cis-trans isomerase](#); [HBI](#); [p52](#); [Hsp56](#); [FKBP51](#); [PPlase](#);

Gene ID [2288](#)

mRNA Refseq [NM_002014](#)

Protein Refseq [NP_002005](#)

MIM [600611](#)

UniProt ID [Q02790](#)

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