

Recombinant Human FKBP4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FKBP4-6186H Lot. No. (See product label)

SPECIFICATION

Product Overview FKBP4 MS Standard C13 and N15-labeled recombinant protein (NP_002005) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species Human

Source HEK293

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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Molecular Mass	51.8 kDa
AA Sequence	MTAEEMKATESGAQSAPLPMEGVDISPKQDEGV LKVIKREGTGTEMPMIGDRV FVH YTGWLLDGTKFDSSLDRKDKF SFDL GKGEVIKAWDIAIATMKVGEVCHITCKPEYAY GSAGSPPKIPP NATLVFEVELFEFKGEDLTEEEDGGIIRRIQTRGEGYAKPNEGAI VE VALEGY YKDKLFDQRELRFEIGEGENLDLPYGLERAIQRMEKGEHSIVYLKPSYAFG SVGKEKFQIPPNAELKYELH LKSFEKAKESWEMNSEEKLEQSTIVKERGT VYFKEGK YKQALLQYKKIVSWLEYESSFSNEEAQKAQALRLASHLNLAMCHLKLQAFSAAIESC NKALELDSNNEKGLFRRGEAHLAVNDFELARADFQKVLQLYPNNKAAKTQLAVCQQ RIRRQLAREKKLYANMFERLAEEENKAKAEASSGDHPTDTEMKEEQKSNTAGSQSQ VETEATRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	FKBP4 FKBP prolyl isomerase 4 [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

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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](#)

SDS-PAGE



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