

Recombinant Human FKBP4 Protein, His-tagged

Cat. No. FKBP4-796H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human FKBP4 fused with His tag at C-terminal was expressed in E. coli.

Species Human

Source E.coli

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	Supplied as a 0.2 μ M filtered solution of 20mM Tris, 10%glycerol, pH 8.0
Molecular Mass	52.8kD
AA Sequence	MTAEEMKATESGAQSAPLPMEGVDISPKQDEGVLKVIKREGTGTEMPMIGDRVFNH YTGWLLDGTKFDSSLDRKDKFSFDLGKGEVIKAWDIAIATMKVGEVCHITCKPEYAY GSAGSPPKIPP NATLVFEVELFEFKGEDLTEEEDGGIIRRIQTRGEGYAKPNEGAIIVE VALEGYKDKLFDQRELRFEIGEGENLDLPYGLERAIQRMEKGEHSIVYLKPSYAFG SVGKEKFQIPPNAELKYELHLKSFEKA
Endotoxin	Endotoxin level is <0.1 ng/g of protein (<1EU/g).
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
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; 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; PPIase;
Gene ID	2288
mRNA Refseq	NM_002014
Protein Refseq	NP_002005

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MIM	600611
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UniProt ID	Q02790
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