

Recombinant Full Length Human FKBP4 Protein, C-Flag-tagged

Cat. No. FKBP4-1610HFL Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Full Length Human FKBP4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

Species

Human

Source

Mammalian Cells

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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	51.6 kDa
AA Sequence	<p>MTAEEMKATESGAQSAPLPMEGVDISPKQDEGVLKVIKREGTGTEMPMIGDRVFNH YTGWLLDGTKFDSS LDRKDKFSFDLGKGEVIKAWDIAIATMKVGEVCHITCKPEYAY GSAGSPPKIPP NATLVFEVELFEFKGE DLTEEEDGGIIRRIQTRGEGYAKPNEGAIVE VALEGYKDKLFDQRELRFEIGEGENLDLPYGLERAIQR MEKGEHSIVYLKPSYAFG SVGKEKFQIPPNAELKYELHLKSFEKAKESWEMNSEEKLEQSTIVKERGTVY FKEGK YKQALLQYKKIVSWLEYESSFSNEEAQKAQALRLASHLNLAMCHLKLQAFSAAIESC NKALELDS NNEKGLFRRGEAHLAVNDFELARADFQKVLQLYPNNKAAKTQLAVCQ QRIRRLAREKKLYANMFERLAE EENKAKAEASSGDHPTDTEMKEEQKSNTAGSQSQVETEA TRTRPLEQKLISEEDLA ANDILDYKDDDDKV</p>
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

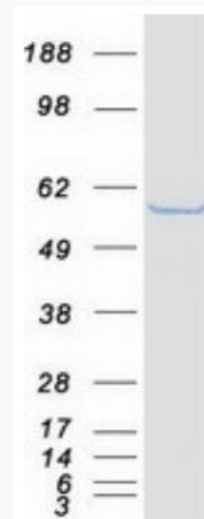
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GENE INFORMATION

Gene Name	FKBP4 FKBP prolyl isomerase 4 [Homo sapiens (human)]
Official Symbol	FKBP4
Synonyms	HBI; p52; Hsp56; FKBP51; FKBP52; FKBP59; PPlase
Gene ID	2288
mRNA Refseq	NM_002014.4
Protein Refseq	NP_002005.1
MIM	600611
UniProt ID	Q02790



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Coomassie blue staining of purified FKBP4 protein.

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