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Datasheet

FKBP4 (Human) Recombinant Protein

Catalog Number: P3485

Regulation Status: For research use only (RUO)

Product Description: Human FKBP4 (NP_002005, 1 a.a. - 459 a.a.) full-length recombinant protein with His tag expressed in *Escherichia coli*.

Sequence:
MGSSHHHHHHSSGLVPRGSHMTAEEMKATESGAQS
APLPMEGVDISPKQDEGVLKVIKREGTGTEMPMIGDR
VFVHYTGWLLDGTKFDSSLDRKDKFSFDLGKGEVIKA
WDIAIATMKVGEVCHITCKPEYAYGSAGSPPKIPPNAT
LVFEVELFEFKGEDLTEEEDGGIIRRIQTRGEGYAKPN
EGAIVEVALEGYYKDKLFDQRELRFEIGEGENLDLPYG
LERAIQRMEKGEHSIVYLKPSYAFGSVGKEKFQIPPNA
ELKYELHLKSFEKAKESWEMNSEEKLEQSTIVKERGTV
YFKEGKYKQALLQYKKIVSWLEYESSFSNEEAQKAQA
LRLASHLNLAMCHLKLQAFSAAIESCNKALELDSNNEK
GLFRRGEAHLAVNDFELARADFQKVLQLYPNNKAAKT
QLAVCQQRIRRQLAREKKLYANMFERLAEEENKAKAE
ASSGDHPTDTEMKEEQKSNTAGSQSQVETEA

Host: Escherichia coli

Theoretical MW (kDa): 53.9

Applications: Func, SDS-PAGE
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Form: Liquid

Preparation Method: *Escherichia coli* expression system

Purification: Conventional Chromatography

Concentration: 1 mg/mL

Purity: > 90% by SDS-PAGE

Endotoxin Level: < 1.0 EU per 1 microgram of protein (determined by LAL method)

Activity: Specific activity is > 300 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25°C in Tris-Hcl pH 8.0 using chymotrypsin.

Storage Buffer: In 20 mM Tris-HCl buffer, pH 8.0 (10% glycerol).

Storage Instruction: Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 2288

Gene Symbol: FKBP4

Gene Alias: FKBP52, FKBP59, HBI, Hsp56, PPIase, p52

Gene Summary: 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. [provided by RefSeq]