

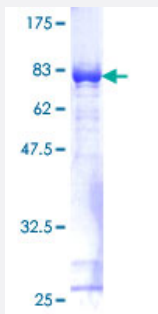
Full-Length

FKBP4 (Human) Recombinant Protein (P01)

Catalog # H00002288-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human FKBP4 full-length ORF (AAH07924.1, 1 a.a. - 459 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTAEEMKATESGAQSAPLPMEGVDISPKQDEGVLKVIKREGTGTEMPMIGDRVFVHYTGWLLDG
TKFDSSLDRKDKFSFDLGKGEVIKAWDIAIATMKVGEVCHITCKPEYAYGSAGSPPKIPP NATLVF
EVELFEFKGEDLTEEEDGGIIRRIQTRGEGYAKPNEGAVEVALEGYYDKLFDQRELRF EIGEGEN
LDLPYGLERAIQRMEKGEHSVYLKPSYAFGSVGKEKFQIPPNAELKYELHLKSFEKAKESWEMNS
EEKLEQSTIVKERGT VYFKEGKYKQALLQYKKIMSWLEYESSFSNEEAQKAQALRLASHLNLAMC
HLKLQAFSAAIESCNKALELDSNNEKGLFRRGEAHLAVNDFELARADFQKVLQLYPNNKAAKTQL
AVCQQRI RRQLAREKKLYANMFERLAE EENKAKAEASSGDHPTDTEMKEEQKSNTAGSQSQVE
TEA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

76.12

Interspecies Antigen Sequence

Mouse (90); Rat (90)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — FKBP4

Entrez GeneID	2288
GeneBank Accession#	BC007924.1
Protein Accession#	AAH07924.1
Gene Name	FKBP4
Gene Alias	FKBP52, FKBP59, HBI, Hsp56, PPlase, p52
Gene Description	FK506 binding protein 4, 59kDa
Omim ID	600611
Gene Ontology	Hyperlink

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]

Other Designations

52 kD FK506 binding protein|FK506 binding protein 4 (59kD)|FK506 binding protein 52|FK506-binding protein 4 (59kD)|HSP binding immunophilin|T-cell FK506-binding protein, 59kD|p59 protein|peptidylprolyl cis-trans isomerase|rotamase

Publication Reference

- [Macrocycles that inhibit the binding between heat shock protein 90 and TPR-containing proteins.](#)

Ardi V, Alexander LD, Johnson VA, McAlpine SR.

ACS Chemical Biology 2011 Dec; 6(12):1357.

Application: Func, PI, Recombinant proteins

Disease

- [Asthma](#)
- [Genetic Predisposition to Disease](#)
- [Glaucoma](#)
- [Hypospadias](#)
- [Syndrome](#)