

Product datasheet for PH300713

FKBP52 (FKBP4) (NM_002014) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FKBP4 MS Standard C13 and N15-labeled recombinant protein (NP_002005)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200713
Predicted MW:	51.8 kDa
Protein Sequence:	>RC200713 protein sequence Red=Cloning site Green=Tags(s)

MTAEEMKATESGAQSAPLPMEGVDISPKQDEGVLKVIKREGTGTEMPMIGDRVHVHTGWLLDGTKFDSS
LDRKDKFSFDLGKGEVIKAWDIAIATMKVGEVCHITCKPEYAYGSAGSPPKIPPNATLVFEVLEFEKGE
DLTEEDGGIIRRIQTRGEGYAKPNEGAIVEVALEGYYKDKLFDQRELRFIIGEGENLDLPYGLERAIQR
MEKGEHSIVYLKPSYAFGSVGEKFKQIPNAELKYELHLKSFKAKESWEMNSEEKLEQSTIVKERGTIVY
FKEGKYKQALLQYKKIVSWLEYESSFNEEAQAQALRLASHLNLAMCHLKLQAFSAIESCNALELDS
NNEKGLFRRGEAHLAVNDFELARADFQKVLQLYPNNKAAKTQLAVCQQRIRRQLAREKKLYANMFERLAE
EENKAKAEASSGDHPTDTEMKEEQKSNTAGSQSQVETEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_002005</u>
RefSeq Size:	3757
RefSeq ORF:	1377
Synonyms:	FKBP51; FKBP52; FKBP59; HBI; Hsp56; p52; PPlase



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Locus ID: 2288

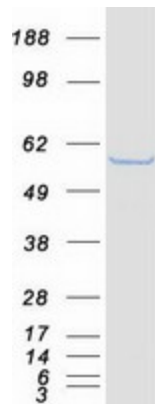
UniProt ID: [Q02790](#)

Cytogenetics: 12p13.33

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, Sep 2008]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified FKBP4 protein (Cat# [TP300713]). The protein was produced from HEK293T cells transfected with FKBP4 cDNA clone (Cat# [RC200713]) using MegaTran 2.0 (Cat# [TT210002]).