OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for PH301237

FKBP12 (FKBP1A) (NM_000801) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FKBP1A MS Standard C13 and N15-labeled recombinant protein (NP_000792)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201237
Predicted MW:	12 kDa
Protein Sequence:	>RC201237 protein sequence Red=Cloning site Green=Tags(s) MGVQVETISPGDGRTFPKRGQTCVVHYTGMLEDGKKFDSSRDRNKPFKFMLGKQEVIRGWEEGVAQMSVG QRAKLTISPDYAYGATGHPGIIPPHATLVFDVELLKLE 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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_000792
RefSeq Size:	1643
RefSeq ORF:	324
Synonyms:	FKBP-1A; FKBP-12; FKBP1; FKBP12; PKC12; PKCI2; PPIASE
Locus ID:	2280
UniProt ID:	P62942, Q0VDC6
Cytogenetics:	20p13

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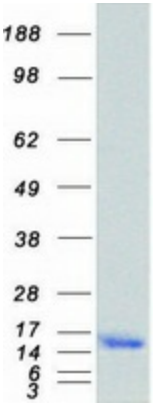
Summary: The protein encoded by this gene is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. The protein is a cis-trans prolyl isomerase that binds the immunosuppressants FK506 and rapamycin. It interacts with several intracellular signal transduction proteins including type I TGF-beta receptor. It also interacts with multiple intracellular calcium release channels, and coordinates multi-protein complex formation of the tetrameric skeletal muscle ryanodine receptor. In mouse, deletion of this homologous gene causes congenital heart disorder known as noncompaction of left ventricular myocardium. Multiple alternatively spliced variants, encoding the same protein, have been identified. The human genome contains five pseudogenes related to this gene, at least one of which is transcribed. [provided by RefSeq, Sep 2008]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified FKBP1A protein (Cat# [TP301237]). The protein was produced from HEK293T cells transfected with FKBP1A cDNA clone (Cat# [RC201237]) using MegaTran 2.0 (Cat# [TT210002]).

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