

## Product datasheet for PH300662

### FKBP12 (FKBP1A) (NM\_054014) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	FKBP1A MS Standard C13 and N15-labeled recombinant protein (NP_463460)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200662
Predicted MW:	12 kDa
Protein Sequence:	>RC200662 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)  MGVQVETISPGDGRTFPKRGQTCVVHYTGMLEDGKKFDSSDRNKPFKFMLGKQEVIRGWEEGVAQMSVG QRAKLTISPDIYAGATGHPGIIPPHATLVFDVELLKLE  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
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:	<a href="#">NP_463460</a>
RefSeq Size:	901
RefSeq ORF:	324
Synonyms:	FKBP-1A; FKBP-12; FKBP1; FKBP12; PKC12; PKC12; PPIASE
Locus ID:	2280
UniProt ID:	<a href="#">P62942</a>
Cytogenetics:	20p13



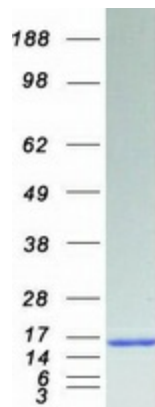
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**Summary:**

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# [TP300662]). The protein was produced from HEK293T cells transfected with FKBP1A cDNA clone (Cat# [RC200662]) using MegaTran 2.0 (Cat# [TT210002]).