Recombinant Human FKBP1A Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. FKBP1A-1987H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	FKBP1A MS Standard C13 and N15-labeled recombinant protein (NP_000792) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	12 kDa
AA Sequence	MGVQVETISPGDGRTFPKRGQTCVVHYTGMLEDGKKFDSSRDRNKPFKFMLGKQE VIRGWEEGVAQMSVGQRAKLTISPDYAYGATGHPGIIPPHATLVFDVELLKLETRTRP

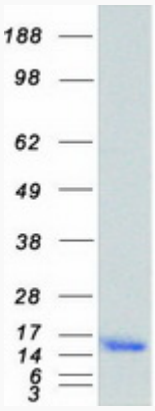
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	LEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	FKBP1A FKBP prolyl isomerase 1A [Homo sapiens (human)]
Official Symbol	FKBP1A
Synonyms	FKBP1A; FK506 binding protein 1A, 12kDa; FK506 binding protein 1A (12kD), FKBP1; peptidyl-prolyl cis-trans isomerase FKBP1A; FKBP 12; FKBP12; FKBP12C; PKC12; PPIASE; rotamase; 12 kDa FKBP; calstabin-1; FKBP12-Exip3; PPIase FKBP1A; immunophilin FKBP12; FK506 binding protein12; FK506-binding protein 1; FK506-binding protein 12; 12 kDa FK506-binding protein; protein kinase C inhibitor 2; FK506-binding protein 1A (12kD); FK506-binding protein, T-cell, 12-kD; FKBP1; PKCI2; FKBP-12; FKBP-1A;
Gene ID	2280
mRNA Refseq	NM_000801

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Protein Refseq	NP_000792
MIM	186945
UniProt ID	P62942
SDS-PAGE	

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