

Recombinant Human FKBP1A

Cat. No. FKBP1A-28908TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human FKBP12
Species	Human
Source	E.coli
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.
Form	Liquid
Storage buffer	Preservative: 1mM Sodium Azide Constituents: 50mM Sodium chloride, 10mM HEPES, 0.5mM DTT, pH 8 Note: This product can be dissolved further into aqueous buffers for use, but these solutions should not be frozen.
Storage	Store at +4°C. Do not freeze.

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Sequence Similarities	Belongs to the FKBP-type PPlase family. FKBP1 subfamily. Contains 1 PPlase FKBP-type domain.
Full Length	Full L.
GENE INFORMATION	
Gene Name	FKBP1A FK506 binding protein 1A, 12kDa [Homo sapiens]
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;
Gene ID	2280
mRNA Refseq	NM_000801
Protein Refseq	NP_000792
MIM	186945
Uniprot ID	P62942
Chromosome Location	20p13
Pathway	ALK1 pathway, organism-specific biosystem; ALK1 signaling events, organism-specific biosystem; ALK2 signaling events, organism-specific biosystem; Alpha-synuclein signaling, organism-specific biosystem; Calcium Regulation in the Cardiac

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Cell, organism-specific biosystem;

Function

FK506 binding; FK506 binding; SMAD binding; activin binding; isomerase activity;

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