

FK506 Binding Protein 1A Recombinant Protein | FKBP1A recombinant protein

Recombinant Human FK506 Binding Protein 1A

CATALOG # AAA38612	HOST E Coli
------------------------------	-----------------------

PRODUCT SYNONYMS

FK506 Binding Protein 1A; Recombinant Human FK506 Binding Protein 1A; FKBP1A Human; FK506 Binding Protein 1A Human Recombinant; FKBP12; PPIase; Peptidyl-prolyl cis-trans isomerase; Rotamase; FKBP-12; FKBP1; PKC12; PKC12; FKBP12C; FKBP1A; PPIase FKBP1A; FK506-binding protein 1A; 12 kDa FKBP; FKBP-1A; FKBP1A recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 99.0% as determined by SDS-PAGE.
Form/Format	The FKBP1A protein solution contains 50mM Hepes pH-8.0, 150mM NaCl, 0.5mM EDTA & 1mM sodium azide. Sterile Filtered colorless solution.
Sequence	The amino acid sequence of recombinant His-tagged FKBP12 is reported as follows: MAHHHH HHVMGV QVETISPGDG RTFPKRGQTC VVHYTGMLED GKKFDSSRDR NKPFKFMGLK QEVIRGWEEG VAQMSVGQRA KLTISPDYAY GATGHPGIIP PHATLVFDVE LLKLE.
Sequence Length	108

ADDITIONAL INFORMATION

Related Product Information for FKBP1A recombinant protein	Description: FKBP1A Human Recombinant fused to N-terminal His-Tag produced in E Coli is a single, non-glycosylated polypeptide chain purified through a Ni²⁺-affinity chromatography followed by gel filtration. Introduction: FKBP1A is a 12kDa protein initially discovered in immune cells on the basis of its capability to bind and mediate the intracellular effect of the immunosuppressant FK506. FKBP1A is also known to mediate the action of Rapamycin-immunosuppressive agent. FKBP1A is part of the family of immunophilins, which have in common high affinity for immunosuppressant drugs and a peptidyl-prolyl cis-trans isomerase (PPIase). Activity which participates in folding of proline-containing protein. In the absence of immunosuppressive ligands, FKBP1A is involved in intracellular calcium regulation by associating with 3 types of Ca²⁺ release channel complexes: skeletal ryanodine receptors, cardiac ryanodine receptors and the inositol 1,4,5-triphosphate receptor. FKBP1A also interacts with TGF-β type I receptor exerting an inhibitory effect on the TGF-β signaling pathway. FKBP12 plays a role in modulation of ryanodine receptor isoform-1 (ryr-1), a component of the calcium release channel of skeletal muscle sarcoplasmic reticulum. FKBP1A increases the folding of proteins and catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.
Product Categories/Family for FKBP1A recombinant protein	Enzymes; FK506 Binding Protein

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503725
NCBI GeneID	2280
NCBI Accession #	NP_000792.1
NCBI GenBank Nucleotide #	NM_000801.4
UniProt Accession #	P62942 ; P20071 ; Q4VC47 ; Q6FGD9 ; Q6LEU3 ; Q9H103 ; Q9H566 ; D3D VW6

Molecular Weight	11,951 Da
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase FKBP1A isoform a
NCBI Official Synonym Full Names	FK506 binding protein 1A, 12kDa
NCBI Official Symbol	FKBP1A
NCBI Official Synonym Symbols	FKBP1; PKC12; PKCI2; FKBP12; PPIASE; FKBP-12; FKBP-1A
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase FKBP1A; 12 kDa FK506-binding protein; 12 kDa FKBP; FK506 binding protein12; FK506-binding protein 1; FK506-binding protein 12; FK506-binding protein 1A (12kD); FK506-binding protein, T-cell, 12-kD; FKBP12-Exip3; PPIase FKBP1A; calstabin 1; calstabin-1; immunophilin FKBP12; protein kinase C inhibitor 2; rotamase
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase FKBP1A
UniProt Gene Name	FKBP1A
UniProt Synonym Gene Names	FKBP1; FKBP12; PPIase FKBP1A; 12 kDa FKBP; FKBP-12; FKBP-1A
UniProt Entry Name	FKB1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/fkbp1a-recombinant-protein-e-coli/38612>