# FK506 Binding Protein 1A Recombinant Protein | FKBP1A recombinant protein

Recombinant Human FK506 Binding Protein 1A

| CATALOG # | HOST |
|---|---|
| **AAA38612** | **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; PKCI2; FKBP12C; FKBP1A; PPIase FKBP1A; FK506-binding protein 1A; 12 kDa FKBP; FKBP-1A; FKBP1A recombinant protein

## PRODUCT SPECIFICATIONS

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| **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** | Theaminoac idsequence ofrecombin antHis-tag gedFKBP12i sreporteda sfollowing :MAHHHH HHVMGV QVETISPGDG RTFPKRGQTC VVHYTGMLED GKKFDSSRDR NKPFKFMLGK QEVIRGWEEG VAQMSVGQRA KLTISPDYAY GATGHPGIIP PHATLVFDVE LLKLE. |
| **Sequence Length** | 108 |

## ADDITIONAL INFORMATION

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| **Related Product Information for FKBP1A recombinant protein** | **Description:** FKPB1A 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.<br><br>**Introduction:** FKBP1A is a 12kDa protein initialy discovered onin 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 interact with TGF-? type I receptor exerting an inhibitory effect on the TGF-? 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 increase 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

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| **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; D3DVW6 |

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| **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.

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Online datasheet: https://stage.aaabiotech.com/fkbp1a-recombinant-protein-e-coli/38612