

FKBP1a /FKBP12 Active Protein | FKBP1a/FKBP12 active protein

FKBP1a /FKBP12, 1-108aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA48496	HOST E Coli	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

FKBP1a /FKBP12; 1-108aa; Human; His tag; E Coli (Bioactivity Validated); FK506 binding protein 1a 12kDa; PPlase FKBP1A; Rotamase; FKBP1; PKC12; FK506 binding protein 1a; 12kDa 12 kDa FKBP; FK506 binding protein 1; FK506 binding protein 1A 12kDa; Immunophilin FKBP12; FK506 binding protein T cell 12 kD; FK506-binding protein 1A; FK506 binding protein 12; FKBP 12; FKBP 1A; FKBP12; FKBP12 Exip3; FKBP12C; Peptidyl-prolyl cis-trans isomerase; PKC12; PPlase; Protein kinase C inhibitor 2.; FKBP1a/FKBP12 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 100 mM NaCl, 1mM DTT, 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHHH SSGLVPRGSH MGQVETISP GDGRTPKRG QTCVVHYTGM LEDGKKFDSS RDRNKPFKFM LGKQEVIRGW EEGVAQMSVG QRAKLTISPD YAYGATGHPG IIPPHATLVF DVELLKLE
Sequence Length	108
Applicable Applications for FKBP1a/FKBP12 active protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity	Specific activity is > 800 nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmole of suc-AAFP-PNA per minute at 37C in Tris-HCl pH 8.0 using chymotrypsin.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for FKBP1a/FKBP12 active protein	FK506 binding protein 1a, also known as FKBP12, belongs to the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. FKBP12 also plays a role in intracellular calcium regulation by associating with three types of calcium release channel complexes, cardiac and skeletal ryanodine receptors and the inositol 1,4,5-trisphosphate receptor. It interacts with several intracellular signal transduction proteins including type I TGF-beta receptor. Recombinant human FKBP12, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for FKBP1a/FKBP12 active protein	Heat Shock Proteins
References	Jayaraman T., et al. (1992). J Biol Chem. 267 (14):9474-7; Siekierka JJ., et al. (1990). J Biol Chem. 265 (34):21011-5;

NCBI AND UNIPROT INFORMATION

NCBI GI #	17149836
NCBI GeneID	2280
NCBI Accession #	NP_463460
NCBI GenBank Nucleotide #	NM_054014.3
UniProt Accession #	P62942; P20071; Q4VC47; Q6FGD9; Q6LEU3; Q9H103; Q9H566; D3D VW6
Molecular Weight	14.1 kDa (128aa), confirmed by MALDI-TOF.
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase FKBP1A isoform a
NCBI Official Synonym Full Names	FK506 binding protein 1A
NCBI Official Symbol	FKBP1A
NCBI Official Synonym Symbols	FKBP1; PKC12; PKC12; FKBP12; PPIASE; FKBP-12; FKBP-1A
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase FKBP1A
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

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.