

Human recombinant protein FKBP1a/FKBP12
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Catalog # PBV10577r**Specification**

Human recombinant protein FKBP1a/FKBP12 - Product info

Primary Accession	P62942
Concentration	1
Calculated MW	14.1 kDa KDa

Human recombinant protein FKBP1a/FKBP12 - Additional Info

Gene ID	2280
Gene Symbol	FKBP1A
Other Names	
FK506 binding protein 1a, 12kDa, PPIase FKBP1A, Rotamase, FKBP1, PKC12	
Gene Source	Human
Source	E. Coli
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	N/A;
Recombinant	Yes
Sequence	MGSSHHHHHH SSGLVPRGSH MGVQVETISP GDGRTFPKRG QTCVVHYTGM LEDGKKFDSS RDRNKPFKFM LGKQEVIRGW EEGVAQMSVG QRAKLTISPD YAYGATGHPG IIPPHATLVF DVELLKLE

Format

Liquid

Storage

-80°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 100 mM NaCl, 1 mM DTT and 10% glycerol.

Human recombinant protein FKBP1a/FKBP12 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human recombinant protein FKBP1a/FKBP12 - Images

Human recombinant protein FKBP1a/FKBP12 - Background

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). 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 type I receptor exerting an inhibitory effect on the TGF β -I 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.

Human recombinant protein FKBP1a/FKBP12 - References

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Standaert R.F.,et al.Nature 346:671-674(1990).
Dilella A.G.,et al.Biochemistry 30:8512-8517(1991).
Peattie D.A.,et al.Gene 150:251-257(1994).
Kalnine N.,et al.Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.