

FKBP1A Blocking Peptide (Center)

Synthetic peptide

Catalog # BP21438c

Specification

FKBP1A Blocking Peptide (Center) - Product Information

Primary Accession

[P62942](#)**FKBP1A Blocking Peptide (Center) - Additional Information**

Gene ID 2280

Other Names

Peptidyl-prolyl cis-trans isomerase FKBP1A, PPIase FKBP1A, 12 kDa FK506-binding protein, 12 kDa FKBP, FKBP-12, Calstabin-1, FK506-binding protein 1A, FKBP-1A, Immunophilin FKBP12, Rotamase, FKBP1A, FKBP1, FKBP12

Target/Specificity

The synthetic peptide sequence is selected from aa 34-48 of HUMAN FKBP1A

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

FKBP1A Blocking Peptide (Center) - Protein Information

Name FKBP1A

Synonyms FKBP1, FKBP12

Function

Keeps in an inactive conformation TGFBR1, the TGF-beta type I serine/threonine kinase receptor, preventing TGF-beta receptor activation in absence of ligand. Recruits SMAD7 to ACVR1B which prevents the association of SMAD2 and SMAD3 with the activin receptor complex, thereby blocking the activin signal. May modulate the RYR1 calcium channel activity. PPIases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.

Cellular Location

Cytoplasm, cytosol. Sarcoplasmic reticulum membrane {ECO:0000250|UniProtKB:P62943}; Peripheral membrane protein {ECO:0000250|UniProtKB:P62943}; Cytoplasmic side {ECO:0000250|UniProtKB:P62943}

FKBP1A Blocking Peptide (Center) - Protocols

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

- [Blocking Peptides](#)

FKBP1A Blocking Peptide (Center) - Images

FKBP1A Blocking Peptide (Center) - Background

Keeps in an inactive conformation TGFBR1, the TGF-beta type I serine/threonine kinase receptor, preventing TGF-beta receptor activation in absence of ligand. Recruits SMAD7 to ACVR1B which prevents the association of SMAD2 and SMAD3 with the activin receptor complex, thereby blocking the activin signal. May modulate the RYR1 calcium channel activity. PPlases accelerate the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides.

FKBP1A Blocking Peptide (Center) - References

Maki N.,et al.Proc. Natl. Acad. Sci. U.S.A. 87:5440-5443(1990).
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.