FKBP10 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	FKBP10, Blocking Peptide
Full Product Name	FKBP10 Peptide - N-terminal region
Product Gene Name	FKBP10 blocking peptide
Product Synonym Gene Name	OI6; OI11; BRKS1; FKBP65; PPIASE; hFKBP65
Sequence	Synthetic peptide located within the following region: NGTFEDGKKF DSSYDRNTLV AIVVGVGRLI TGMDRGLMGM CVNERRRLIV
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	FKBP10 peptide (MBS3247174) is used for blocking the activity of FKBP10 antibody (MBS3222506)
Molecular Weight	64 kDa
OMIM	gene 610968
Product Categories/Family for FKBP10 blocking peptide	Peptide
Related Product Information for FKBP10 blocking peptide	This is a synthetic peptide designed for use in combination with anti- FKBP10 Antibody, made Target Description: The protein encoded by this gene belongs to the FKBP-type peptidyl-prolyl cis/trans isomerase (PPIase) family. This protein localizes to the endoplasmic reticulum and acts as a molecular chaperone. Alternatively spliced variants encoding different isoforms have been reported, but their biological validity has not been determined.
Other Notes	Small volumes of FKBP10 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FKBP10 purchase	MBS3247174 is a blocking peptide targeting FKBP10. Also known as FKBP10 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FKBP10. It may not necessarily be applicable to this product.

NCBI GI #	192448443
NCBI GeneID	60681
NCBI Accession #	NP_068758.3
UniProt Primary Accession #	Q96AY3
UniProt Related Accession #	Q96AY3
GenBank Nucleotide #	NM_021939.3
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase FKBP10
NCBI Official Synonym Full Names	FKBP prolyl isomerase 10

NCBI Official Symbol	FKBP10
NCBI Official Synonym Symbols	OI6; OI11; BRKS1; FKBP65; PPIASE; hFKBP65
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase FKBP10
UniProt Synonym Protein Names	65 kDa FK506-binding protein; 65 kDa FKBP; FKBP-65; FK506-binding protein 10; FKBP-10; Immunophilin FKBP65; Rotamase
Protein Family	Peptidyl-prolyl cis-trans isomerase
UniProt Gene Name	FKBP10
UniProt Synonym Gene Names	FKBP65; PSEC0056; PPIase FKBP10; 65 kDa FKBP; FKBP-65; FKBP-10
UniProt Entry Name	FKB10_HUMAN
NCBI Protein Information	peptidyl-prolyl cis-trans isomerase FKBP10
NCBI Summary for FKBP10	The protein encoded by this gene belongs to the FKBP-type peptidyl-prolyl cis/trans isomerase (PPIase) family. This protein localizes to the endoplasmic reticulum and acts as a molecular chaperone. Alternatively spliced variants encoding different isoforms have been reported, but their biological validity has not been determined.[provided by RefSeq, Nov 2009]
UniProt Comments for FKBP10	FKBP10: PPIases accelerate the folding of proteins during protein synthesis. Defects in FKBP10 are the cause of osteogenesis imperfecta type 6 (OI6). OI6 is a moderate to severe, autosomal recessive form of osteogenesis imperfecta characterized by increased serum alkaline phosphatase levels and bone histology exhibiting a fish scale-like lamellar pattern. Osteogenesis imperfecta defines a group of connective tissue disorders characterized by bone fragility and low bone mass. Protein type: EC 5.2.1.8; Isomerase Chromosomal Location of Human Ortholog: 17q21.2 Cellular Component: endoplasmic reticulum membrane; endoplasmic reticulum lumen Molecular Function: peptidyl-prolyl cis-trans isomerase activity; FK506 binding; calcium ion binding Biological Process: protein peptidyl-prolyl isomerization Disease: Osteogenesis Imperfecta, Type Xi; Bruck Syndrome 1
Research Articles on FKBP10	**1.** FKBP10 interacts with collagen VI and deficiency of FKBP10 reduces lung fibroblast migration by down-regulation of collage VI synthesis.
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