Peptidyl-Prolyl Cis-Trans Isomerase FKBP6 (FKBP6) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Peptidyl-prolyl cis-trans isomerase FKBP6 (FKBP6), Recombinant Protein
Full Product Name	Recombinant Human Peptidyl-prolyl cis-trans isomerase FKBP6 (FKBP6)
Product Gene Name	FKBP6 recombinant protein
Sequence	MGGSALNQGV LEGDDAPGQS LYERLSQRML DISGDRGVLK DVIREGAGDL VAPDASVLVK YSGYLEHMDR PFDSNYFRKT PRLMKLGEDI TLWGMELGLL SMRRGELARF LFKPNYAYGT LGCPPLIPPN TTVLFEIELL DFLDCAESDK FCALSAEQQD QFPLQKVLKV AATEREFGNY LFRQNRFYDA KVRYKRALLL LRRRSAPPEE QHLVEAAKLP VLLNLSFTYL KLDRPTIALC YGEQALIIDQ KNAKALFRCG QACLLLTEYQ KARDFLVRAQ KEQPFNHDIN NELKKLASCY RDYVDKEKEM WHRMFAPCGD GSTAGES
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	33,553 Da
Sequence Positions	1-327, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	604839
3D Structure	ModBase 3D Structure for O75344
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for FKBP6 recombinant protein	This protein is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. The protein may have cis-trans prolyl isomerase activity, and binds to clathrin heavy chain and heat shock protein 72. This gene is found to be deleted in Williams syndrome, and the orthologous gene in mouse is essential for fertility and homologous pairing in male meiosis.
Other Notes	Small volumes of FKBP6 recombinant protein 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 FKBP6 purchase	MBS1160790 is a recombinant protein targeting FKBP6. Also known as Recombinant Human Peptidyl-prolyl cis-trans isomerase FKBP6 (FKBP6). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FKBP6. It may not necessarily be applicable to this product.

NCBI GI #	206725544
NCBI GeneID	8468

NCBI Accession #	NP_001128683.1
UniProt Primary Accession #	O75344
UniProt Secondary Accession #	Q7Z4T4; Q9UDS0; B4DXT7; G3V0I2
UniProt Related Accession #	O75344
GenBank Nucleotide #	NM_001135211.2
NCBI Official Full Name	inactive peptidyl-prolyl cis-trans isomerase FKBP6 isoform b
NCBI Official Synonym Full Names	FK506 binding protein 6
NCBI Official Symbol	FKBP6
NCBI Official Synonym Symbols	FKBP36
UniProt Protein Name	Inactive peptidyl-prolyl cis-trans isomerase FKBP6
UniProt Synonym Protein Names	36 kDa FK506-binding protein; 36 kDa FKBP; FKBP-36; FK506-binding protein 6; FKBP-6; Immunophilin FKBP36
Protein Family	FK506-binding protein
UniProt Gene Name	FKBP6
UniProt Synonym Gene Names	FKBP36; Inactive PPIase FKBP6; 36 kDa FKBP; FKBP-36; FKBP-6
NCBI Protein Information	inactive peptidyl-prolyl cis-trans isomerase FKBP6
NCBI Summary for FKBP6	The protein encoded by this gene is a cis-trans peptidyl-prolyl isomerase that may function in immunoregulation and basic cellular processes involving protein folding and trafficking. This gene is located in a chromosomal region that is deleted in Williams-Beuren syndrome. Defects in this gene may cause male infertility. There are multiple pseudogenes for this gene located nearby on chromosome 7. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013]
UniProt Comments for FKBP6	Co-chaperone required during spermatogenesis to repress transposable elements and prevent their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons. Acts as a co-chaperone via its interaction with HSP90 and is required for the piRNA amplification process, the secondary piRNA biogenesis. May be required together with HSP90 in removal of 16 nucleotide ping-pong by-products from Piwi complexes, possibly facilitating turnover of Piwi complexes ().
Research Articles on FKBP6	**1.** Genome wide DNA methylation assessment approach identified novel biomarkers that differentiate between cervical cancer and normal samples. In the Validation cohort FKBP6 promoter methylation had 73% sensitivity and 80% specificity (AUC = 0.80).
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