



Recombinant Rat Peptidyl-prolyl cis-trans isomerase FKBP4 (Fkbp4)

Product Code	CSB-BP882538RA
Abbreviation	Fkbp4
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9QVC8
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	>85% (SDS-PAGE)
Sequence	MTAEEMKVAE NGAQSAPLPL EGVDISPKQD EGVLKVIKRE GTGTETAMIG DRVFNHYTGW LLDGTFKFDSS LDRKDKFSFD LGKGEVIKAW DIAVATMKVG EVCHITCKPE YAYGSAGSPP KIPP NATLVF EVELFEFKGE DLTEDEDGGI IRRIRTRGEG YARPNDGAMV EVALEGGYND RLFQRELCF EVGEGESLDL PCGLEEAIQR MEKGEHSIVY LKPSYAFGSV GKERFQIPPH AELRYEVHLK SFEKAKASWE MNSEEKLEQS NIVKERGTVY FKEGKYKQAL LQYKKIVSWL EYESSFSGEE MQKVHALRLA SHLNLMCHL KLQAFSAAIE SCNKALELDS NNEKGLFRRG EAHLAVNDFD LARADFQKVL QLYPSNKA AK TQLAVCQQRT RRQLAREKKL YANMFERLAE EEHKAKTEVA AGDHPTDAEM KGEPNNVAGN QAQVKTEA
Source	Baculovirus
Target Names	Fkbp4
Protein Names	Recommended name: Peptidyl-prolyl cis-trans isomerase FKBP4 Short name= PPIase FKBP4 EC= 5.2.1.8 Alternative name(s): 52 kDa FK506-binding protein Short name= 52 kDa FKBP Short name= FKBP-52 59 kDa immunophilin
Expression Region	1-458
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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. This encoded protein is a cis-trans prolyl isomerase that binds to the immunosuppressants FK506 and rapamycin. It has high structural and functional similarity to FK506-binding protein 1A (FKBP1A), but unlike FKBP1A, this protein does not have immunosuppressant activity when complexed with FK506. It interacts with interferon regulatory factor-4 and plays an important role



in immunoregulatory gene expression in B and T lymphocytes. This encoded protein is known to associate with phytanoyl-CoA alpha-hydroxylase. It can also associate with two heat shock proteins (hsp90 and hsp70) and thus may play a role in the intracellular trafficking of hetero-oligomeric forms of the steroid hormone receptors. This protein correlates strongly with adeno-associated virus type 2 vectors (AAV) resulting in a significant increase in AAV-mediated transgene expression in human cell lines. Thus this encoded protein is thought to have important implications for the optimal use of AAV vectors in human gene therapy. The human genome contains several non-transcribed pseudogenes similar to this gene.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.