

Recombinant Human FKBP5 protein, His/GST-tagged

Cat. No. FKBP5-42H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FKBP5(Thr2~Val457) fused with His/GST tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr2~Val457
Description	The protein encoded by this gene 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 is thought to mediate calcineurin inhibition. It also interacts functionally with mature hetero-oligomeric progesterone receptor complexes along with the 90 kDa heat shock protein and P23 protein. This gene has been found to have multiple polyadenylation sites. Alternative splicing results in multiple transcript variants.
Form	20mM Tris, 150mM NaCl,pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Molecular Mass	81.1kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	FKBP5 FK506 binding protein 5 [Homo sapiens]
Official Symbol	FKBP5
Synonyms	FKBP5; FK506 binding protein 5; peptidyl-prolyl cis-trans isomerase FKBP5; FKBP51; FKBP54; P54; PPIase; Ptg 10; FKBP-5; FKBP-51; rotamase; 51 kDa FKBP; FF1 antigen; PPIase FKBP5; HSP90-binding immunophilin; T-cell FK506-binding protein; androgen-regulated protein 6; 51 kDa FK506-binding protein 5; peptidylprolyl cis-trans isomerase; 54 kDa progesterone receptor-associated immunophilin; AIG6; Ptg-10; MGC111006;
Gene ID	2289

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mRNA Refseq	NM_001145775
Protein Refseq	NP_001139247
MIM	602623
UniProt ID	Q13451
Chromosome Location	6p21.31
Pathway	Glucocorticoid receptor regulatory network, organism-specific biosystem; TNF-alpha/NF-kB Signaling Pathway, organism-specific biosystem;
Function	FK506 binding; binding; heat shock protein binding; isomerase activity; peptidyl-prolyl cis-trans isomerase activity;
	