

Recombinant Human FKBP5 protein, His-tagged

Cat. No. FKBP5-2124H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FKBP5(Met1-Val457) fused with N-terminal his-tag (10 extra AA) was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-457 a.a.
Form	Filtered (0.4 µm) and lyophilized from solution 20 mM Tris buffer, 50 mM NaCl, pH 7.5.
Molecular Mass	52.5 kDa (calculated)
AA Sequence	MKHHHHHHAS MTTDEGAKNN EESPTATVAE QGEDITSKKD RGVLKIVKRV GNGEETPMIG DKVYVHYKGK LSNQKKFDSS HDRNEPFVFS LGKGQVIKAW DIGVATMKKG EICHLCKPE YAYGSAGSLP KIPSNATLFF EIELLDFKGE DLFEDGGIIR RTKRKGEGYS NPNEGATVEI HLEGRCGGRM FDCRDVAFTV GEGEDHDIPI GIDKALEKMQ REEQCILYLG PRYGFGEAGK PKFGIEPNAE LIYEVTLSKF EKAKESWEMD TKEKLEQAAI VKEKGTVYFK GGKYMQAVIQ YGKIVSWLEM EYGLSEKESK ASESFLAAL LNLAMCYLKL REYTKAVECC DKALGLDSAN EKGLYRRGEA QLLMNEFESA KGDFEKVLEV NPQNKAARLQ ISMCQKKAKE HNERDRRIYA NMFKKFAEQD AKEEANKAMG KKTSEGVNTNE KGTDSQAMEE EKPEGHV

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Endotoxin	< 1.0 EU/μg
Purity	Purity as determined by densitometric image analysis: >90%
Applications	ELISA, Western blotting
Notes	BCA to determine quantity of the protein. SDS-PAGE to determine purity of the protein. LAL TEST to determine endotoxin level.
Storage	Store the lyophilized protein at –80 centigrade. Lyophilized protein remains stable until the expiry date when stored at –80 centigrade. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80 centigrade for long term storage. Reconstituted protein can be stored at 4 centigrade for a week.
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile product before using in cell culture.

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;

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	Ptg-10; MGC111006;
Gene ID	2289
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;