

# Recombinant Human FKBP5 protein, His-tagged

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

## SPECIFICATION

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

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 1.0 EU/μg                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>         | Purity as determined by densitometric image analysis: >90%                                                                                                                                                                                                                                                                          |
| <b>Applications</b>   | ELISA, Western blotting                                                                                                                                                                                                                                                                                                             |
| <b>Notes</b>          | BCA to determine quantity of the protein.<br>SDS-PAGE to determine purity of the protein.<br>LAL TEST to determine endotoxin level.                                                                                                                                                                                                 |
| <b>Storage</b>        | 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. |
| <b>Reconstitution</b> | 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

|                        |                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | FKBP5 FK506 binding protein 5 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                             |
| <b>Official Symbol</b> | FKBP5                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>        | 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;                                                                                                                       |
| <b>Gene ID</b>             | 2289                                                                                                                                     |
| <b>mRNA Refseq</b>         | NM_001145775                                                                                                                             |
| <b>Protein Refseq</b>      | NP_001139247                                                                                                                             |
| <b>MIM</b>                 | 602623                                                                                                                                   |
| <b>UniProt ID</b>          | Q13451                                                                                                                                   |
| <b>Chromosome Location</b> | 6p21.31                                                                                                                                  |
| <b>Pathway</b>             | Glucocorticoid receptor regulatory network, organism-specific biosystem; TNF-alpha/NF-kB Signaling Pathway, organism-specific biosystem; |
| <b>Function</b>            | FK506 binding; binding; heat shock protein binding; isomerase activity; peptidyl-prolyl cis-trans isomerase activity;                    |