

## 32-6746: FKBP5 Human

### Alternative Name :

FK506 Binding Protein 5, 54 KDa Progesterone Receptor-Associated Immunophilin, 51 KDa FK506-Binding Protein, Androgen-Regulated Protein 6, HSP90-Binding Immunophilin, FK506-Binding Protein 5, PPIase FKBP5, 51 KDa FKBP, FF1 Antigen, EC 5.2.1.8, Rotamase, FKBP-51, FKBP51, FKBP54, AIG6, P54, Peptidylprolyl Cis-Trans Isomerase, T-Cell FK506-Binding Protein, PPIASE, Ptg-10, FKBP-5, FKBP5.

### Description

Source: Escherichia Coli.

Filtered White lyophilized (freeze-dried) powder.

FK506 Binding Protein 5 (FKBP5) belongs to the immunophilin protein family, which has a role in immunoregulation and basic cellular processes involving protein folding and trafficking. FKBP5 is a cis-trans prolyl isomerase, which binds to the immunosuppressants FK506 and rapamycin. FKBP5 is an immunophilin protein with PPIase and co-chaperone activities. FKBP5 is assumed to mediate calcineurin inhibition. FKBP5 is a component of unligated steroid receptors heterocomplexes through interaction with heat-shock protein 90 (HSP90). In addition, FKBP5 interacts functionally with mature hetero-oligomeric progesterone receptor complexes along with the 90 kDa heat shock protein and P23 protein.

FKBP5 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain (Met1-Val457) containing 467 amino acids including a 10 aa His tag at N-terminus. The total calculated molecular mass is 52.5kDa.

### Product Info

#### Amount :

2 µg / 10 µg

#### Purification :

Greater than 90.0% as determined by SDS-PAGE.

#### Content :

FKBP5 was filtered (0.4µm) and lyophilized in 20mM Tris buffer and 50mM NaCl, pH 7.5. It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. Filter sterilize your culture media/working solutions containing this non-sterile FKBP5 before using in cell culture.

#### Storage condition :

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.

#### Amino Acid :

MKHHHHHHA<sup>Å</sup> MTTDEGAKNN EESPTATVAE QGEDITSKGD RGVLKIVKRV GNGEETPMIG  
DKVYVHYKGGK LSNKGKFDSS HDRNEPFVFS LGKGQVIKAW DIGVATMCKG EICHLCKPE YAYGSAGSLP  
KIPSNATLFF EIELLDFKGE DLFEDGGIIR RTKRKGEGYS NPNEGATVEI HLEGRCGGRM FDCRDVAFTV  
GEGEDHDIPI GIDKALEKMQ REEQCILYLG PRYGFGEAGK PKFGIEPNAE LIYEVTLKSF EKAKESWEMD  
TKEKLEQAAI VKEKGTVYFK GGYMQAVIQ YGKIVSWLEM EYGLSEKESK ASESFLAAF LNLAMCYLKL  
REYTKAVECC DKALGLDSAN EKGLYRRGEA QLLMNEFESA KGDFEKVLEV NPQNKAARLQ ISMCQKKAKE  
HNERDRRIYA NMFKKFAEQD AKEEANKAMG KKTSEGV<sup>TNE</sup> KGTDSQAMEE EKPEGHV.