
Product Data Sheet

Product Name: FKBP5 Human
 Cat. No.: GP21631
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	<p>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.</p>		
Amino Acid Sequence	<p>MKHHHHHHASMTTDEGAKNN EESPTATVAE QGEDITSKGD RGVLKIVKRV GNGEETPMIG DKVYVHYKGGK LSNKKFDSS HDRNEPFVFS LGKGQVIKAW DIGVATMKKG EICHLCKPE YAYGSAGSLP KIPSNATLFF EIELDFKGE DLFEDGGIIR RTKRKGEGYS NPNEGATVEI HLEGRCGGRM FDCRDVAFTV GEGEDHDIPI GIDKALEKMQ REEQCILYLG PRYGFGEAGK PKFGIEPNAE LIYEVTLKSF EKAKESWEMD TKEKLEQAAI VKEKGTVYFK GGKYMQAVIQ YGKIVSWLEM EYGLSEKESK ASESFLAAF LNLAMCYLKL REYTKAVECC DKALGLDSAN EKGLYRRGEA QLLMNEFESA KGDFEKVLEV NPQNKAARLQ ISMCQKKAKE HNERDRRIYA NMFKKFAEQD AKEEANKAMG KKTSEGVNTNE KGTDSQAMEE EKPEGHV.</p>		
Solubility	<p>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.</p>		
Formulation	<p>FKBP5 was filtered (0.4µm) and lyophilized in 20mM Tris buffer and 50mM NaCl, pH 7.5.</p>		

Introduction

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Stability

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 .

Background

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.

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