# Recombinant Human FK506 Binding Protein 6, 36kDa, His-tagged

**Cat. No.** FKBP6-2486H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant human FKBP6, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.MW = 39.3 kDa (347aa). |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | FK506 binding protein 6, also known as FKBP6, is a member of the immunophilin protein family, which play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. Ubiquitously expressed in all tissues, FKBP6 is present at highest levels in testis, liver, kidney, skeletal muscle and heart. Deletion of FKBP6 may contribute to hypercalcemia and growth delay in Williams-Beuren syndrome. |
| **Form** | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 40% glycerol, 1mM EDTA, 50mM NaCl. |
| **Purity** | > 95% by SDS – PAGE. |
| **Concentration** | 0.5 mg/ml (determined by Bradford assay). |
| **Sequences Of Amino Acids** | MGSSHHHHHH SSGLVPRGSH MGGSALNQGV LEGDDAPGQS LYERLSQRML DISGDRGVLK DVIREGAGDL VAPDASVLVK YSGYLEHMDR PFDSNYFRKT |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| | PRLMKLGEDI TLWGMELGLL SMRRGELARF LFKPNYAYGT LGCPPLIPPN TTVLFEIELL DFLDCAESDK FCALSAEQQD QFPLQKVLKV AATEREFGNY LFRQNRFYDA KVRYKRALLL LRRRSAPPEE QHLVEAAKLP VLLNLSFTYL KLDRPTIALC YGEQALIIDQ KNAKALFRCG QACLLLTEYQ KARDFLVRAQ KEQPFNHDIN NELKKLASCY RDYVDKEKEM WHRMFAPCGD GSTAGES. |
| **Biological activity** | Specific activity is > 190 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25°C in Tris-Hcl pH8.0 using chymotrypsin. |
| **Activity Assay** | 1. Prepare 170ul assay buffer into a suitable container and pre-chill on ice before use: The final concentrations are 200 mM Tris-Hcl, pH 8.0, and 20nM chymotrypsin.2. Add 10ul of recombinant FKBP6 protein with 1ug in assay buffer. 3. Mix by inversion and equilibrate to 1°C and monitor the A405nm until the value is constant using a spectrophotometer.4. Add 20ul pre-chilled 5mM suc-AAFP-pNA. (Substrate was dissolved in TFE that contained 460mM LiCl to a concentration of 3 mM)5. Record the increase in A405 nm for 30 minutes at 25°C. |
| **Storage** | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |

## GENE INFORMATION

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| **Gene Name** | FKBP6 FK506 binding protein 6, 36kDa [ Homo sapiens ] |
| **Synonyms** | FK506 binding protein 6, 36kDa; FKBP36; PPIase; MGC87179; FKBP6; peptidyl-prolyl cis-trans isomerase FKBP6; FKBP-6; FKBP-36; rotamase; 36 kDa FKBP; PPIase FKBP6; OTTHUMP00000210651; immunophilin FKBP36; 36 kDa FK506-binding protein; FK506-binding protein 6 (36kD); peptidylprolyl cis-trans isomerase; Immunophilin FKBP36; FK506 binding protein 6; EC 5.2.1.8; Peptidyl-prolyl cis-trans |

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| | isomerase; Rotamase |
| **Gene ID** | 8468 |
| **mRNA Refseq** | NM_001135211 |
| **Protein Refseq** | NP_001128683 |
| **MIM** | 604839 |
| **UniProt ID** | O75344 |
| **Chromosome Location** | 7q11.23 |
| **Function** | FK506 binding; binding; isomerase activity; peptidyl-prolyl cis-trans isomerase activity |

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