# Recombinant human FKBP13/FKBP2 protein

Catalog Number: ATGP0506

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
22-142aa

**UniProt No.**
P26885

**NCBI Accession No.**
NP_001128680

**Alternative Names**
FKBP prolyl isomerase 2, Peptidyl-prolyl cis-trans isomerase FKBP2, PPIase FKBP2, 13 kDa FK506-binding protein, 13 kDa FKBP, FKBP-13, FK506-binding protein 2, FKBP-2, Immunophilin FKBP13, Rotamase, Rapamycin-binding protein, Proline isomerase

## PRODUCT SPECIFICATION

**Molecular Weight**
13.4 kDa (122aa) confirmed by MALDI-TOF

**Concentration**
1mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

**Purity**
> 90% by SDS-PAGE

**Endotoxin level**
< 1 EU per 1ug of protein (determined by LAL method)

**Biological Activity**
Specific activity is > 700nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmol of suc-AAPF-pNA per minute at 37C in Tris-HCl pH 8.0 using chymotrypsin.

**Tag**
Non-Tagged

**Application**
SDS-PAGE, Enzyme Activity

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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## BACKGROUND

### Description

FKBP2 is peptidyl proline isomerase enzyme and a member of the immunophilin protein family. This protein is predominantly expressed in thymus and T cells and plays a role in immunoregulation and basic cellular processes involving protein folding and trafficking. It is a cis-trans prolyl isomerase that binds the immunosuppressants FK506 and rapamycin. FKBP2 is thought to function as an ER chaperone and may also act as a component of membrane cytoskeletal scaffolds. Recombinant FKBP2 protein was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

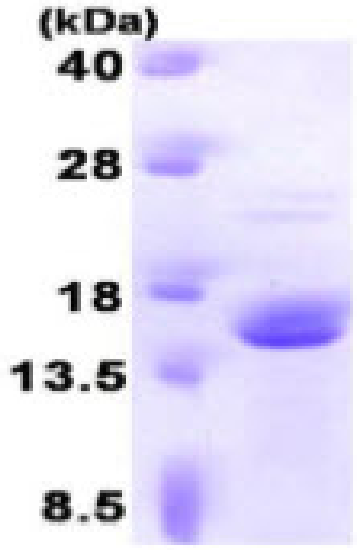
MATGAEGKRK LQIGVKKRVD HCPIKSRKGD VLHMHYTGKL EDGTEFDSSL PQNQPFVFSL GTGQVIKGWD QGLLGMCEGE KRKLVIPSEL GYGERGAPPK IPGGATLVFE VELLKIERRT EL

### General References

Walensky LD., et al. (1998) J Cell Biol. 141(1):143-53.
Padilla PI., et al. (2003) Proc Natl Acad Sci u S A. 100(5):2322-7.

## DATA

### SDS-PAGE




15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.