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## Recombinant human FKBP22/FKBP14 protein

Catalog Number: ATGP0604

## **PRODUCT INFORMATION**

## **Expression system**

E.coli

#### **Domain**

20-211aa

#### UniProt No.

O9NWM8

#### **NCBI Accession No.**

NP 060416

#### **Alternative Names**

22 kDa FK506 binding protein, FK506 binding protein 14 (22 kDa), FKBP22, Peptidyl prolyl cis trans isomerase, Peptidyl-prolyl cis-trans isomerase FKBP14, PPlase, Rotamase

## PRODUCT SPECIFICATION

## **Molecular Weight**

24.2 kDa (213aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

## **Biological Activity**

Specific activity is > 240nmol/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAPF-pNA per minute at 37C in Tris-Hcl pH8.0 using chymotrypsin.

#### Tag

His-Tag

## **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.

## **BACKGROUND**

## **Description**

FKBP14, also known as 22 kDa FK506-binding protein, is an enzyme that accelerates the folding of proteins during protein synthesis. This protein contains two EF-hand domains and one PPlase FKBP-type domain.



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Truncation of the amino-terminus of FKBP14 greatly reduces peptidyl prolyl cis-trans isomerase activity, therefore suggesting that the PPlase FKBP-type domain must be located at the N-terminus. Recombinant human FKBP14 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

## **Amino acid Sequence**

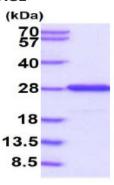
MGSSHHHHHH SSGLVPRGSH MALIPEPEVK IEVLQKPFIC HRKTKGGDLM LVHYEGYLEK DGSLFHSTHK HNNGQPIWFT LGILEALKGW DQGLKGMCVG EKRKLIIPPA LGYGKEGKGK IPPESTLIFN IDLLEIRNGP RSHESFQEMD LNDDWKLSKD EVKAYLKKEF EKHGAVVNES HHDALVEDIF DKEDEDKDGF ISAREFTYKH DEL

#### **General References**

Tremmel D., et al. (2007) J Mol Biol. 369(1):55-68. Budiman C., et al. (2009) FEBS J. 276(15):4091-101.

### **DATA**

### **SDS-PAGE**



15% SDS-PAGE (3ug)

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

