

Recombinant human FKBP22/FKBP14 protein

Catalog Number: ATGP0604

PRODUCT INFORMATION

Expression system

E.coli

Domain

20-211aa

UniProt No.

Q9NWM8

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 PPIase 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

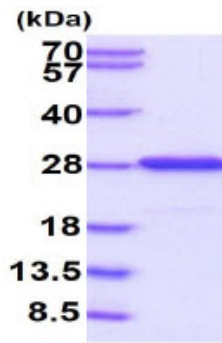
MGSSHHHHHH SGLVPRGSH MALIPEPEVK IEVLQKPFIC HRKTKGGDLM LVHYEGYLEK DGSLFHSTHK HNNGQPIWFT
LGILEALKGW DQGLKGMCVG EKRKLIIPPA LYGKKEGK GK IPPESTLIFN IDLLEIRNGP RSHEFSQEMD LNDDWKLSKD
EVKAYLKKEF EKHGAVVNES HHDALVEDIF DKEDEDK DGF ISAREFTYKH DEL

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.