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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, PPlase 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

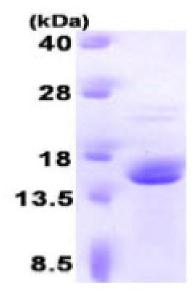
coomassie blue stain.

General References

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by

15% SDS-PAGE (3ug)

