

Recombinant human FKBP25/FKBP3 protein

Catalog Number: ATGP0494

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-224aa

UniProt No.

Q00688

NCBI Accession No.

NP_002004

Alternative Names

FKBP prolyl isomerase 3, Peptidyl-prolyl cis-trans isomerase FKBP3, PPIase FKBP3, 25 kDa FK506-binding protein, 25 kDa FKBP, FKBP-25, FK506-binding protein 3, FKBP-3, Immunophilin FKBP25, Rapamycin-selective 25 kDa immunophilin, Rotamase

PRODUCT SPECIFICATION

Molecular Weight

25.1 kDa (224aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Biological Activity

Specific activity is > 900nmol/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.

BACKGROUND

Description

FK506 binding protein 3 (FKBP3), also known as FKBP25, is a member of the immunophilin protein family, which

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play a role in immunoregulation and basic cellular processes involving protein folding and trafficking. FKBP3 associates with transcriptional repressor protein YY1 and histone deacetylases, HDAC1 and HDAC2. Also, FKBP3 may contain several casein kinase II phosphorylation sites, which are believed to be important for cell growth regulation. It is localized in the nucleus and is expressed in the brain, testis, ovary, and spleen. Recombinant human FKBP3 was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

MAAAVPQRAW TVEQLRSEQL PKKDIKFLQ EHGSDSFLAE HKLLGNIKNV AKTANKDHLV TAYNHLFETK RFKGTESISK
VSEQVKNVKL NEDKPKETKS EETLDEGPPK YTKSVLKKGD KTNFPKKGDV VHCWYTGTLQ DGTVFDTNIQ TSAKKNNAK
PLSFKVGVGK VIRGWDEALL TMSKGEKARL EIEPEWAYGK KGQPDAKIPP NAKLTLEVEL VDID

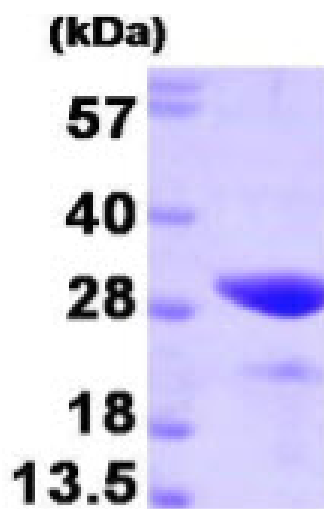
General References

Yang WM., et al. (2001) EMBO J. 20(17):4814-25.

Jin YJ., et al. (1993) Proc Natl Acad Sci u S A. 90(16):7769-73.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)