

Recombinant Human FK506 Binding Protein 3, 25kDa

Cat. No. FKBP3-2026H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human FKBP3 was expressed in E.coli and purified by using conventional chromatography techniques, 25.1 kDa (224aa).
Species	Human
Source	E.coli
Description	FK506 binding protein 3 (FKBP3), also known as FKBP25, is a member of the immunophilin protein family, which 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.
Purity	> 90% by SDS - PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MAAAVPQRAW TVEQLRSEQL PKKDIKFLQ EHGSDSFLAE HKLLGNIKNV AKTANKDHLV TAYNHLFETK RFGGTESISK VSEQVKNVKLNEDKPKETKS EETL DEGPPK YTKSVLKKGD KTNFPKKGDV VHCWYTGTLQ DGTVFDTNIQ TSAKKK KNAK PLSFKVGVGK VIRGWDEALLTMSKGEKARL EIEPEWAYGK KGQPDAKIPP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

NAKLTFEVEL VDID.

Biological activity

Specific activity is > 490 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25°C in Tris-Hcl pH8.0 using chymotrypsin.

Activity Assay

1. Prepare 170ul assay buffer into a suitable container and pre-chill on ice before use: The final concentrations are 200 mM Tris-Hcl, pH 8.0, and 20nM chymotrypsin.2. Add 10ul of recombinant FKBP3 protein with 1ug in assay buffer.3. Mix by inversion and equilibrate to 1°C and monitor the A405nm until the value is constant using a spectrophotometer.4. Add 20ul pre-chilled 5mM suc-AAFP-pNA. (Substrate was dissolved in TFE that contained 460mM LiCl to a concentration of 3 mM)5. Record the increase in A405 nm for 30 minutes at 25°C.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

FKBP3 FK506 binding protein 3, 25kDa [Homo sapiens]

Synonyms

FK506 binding protein 3, 25kDa; PPIase; FKBP-25; FKBP3; peptidyl-prolyl cis-trans isomerase FKBP3; FKBP-3; rotamase; 25 kDa FKBP; PPIase FKBP3; immunophilin FKBP25; rapamycin binding protein; 25 kDa FK506-binding protein; FK506-binding protein 3 (25kD); FK506-binding protein 25, T-cell; rapamycin-selective 25 kDa immunophilin; Rapamycin-selective 25 kDa immunophilin; Peptidyl-prolyl cis-trans isomerase; EC 5.2.1.8; FKBP25; Rotamase; OTTHUMP00000178918

Gene ID

2287

mRNA Refseq

NM_002013

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Protein Refseq	NP_002004
MIM	186947
UniProt ID	Q00688
Chromosome Location	14q21.2
Function	peptidyl-prolyl cis-trans isomerase activity; FK506 binding; isomerase activity; receptor activity
PDB rendering based on 1pbk.	