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32-2327: FKBP3 Recombinant Protein

Alternative Name :	EC 5.2.1.8,FKBP-3,FKBP25,FKBP-25,Peptidyl-prolyl cis-trans isomerase FKBP3,PPIase FKBP3,FK506-binding protein 3,Rotamase,Immunophilin FKBP25,25 kDa FK506-binding protein,25 kDa FKBP,Rapamycin-selective 25 kDa immunophilin,FKBP3,PPIase.

Description

Source : Escherichia Coli. FKBP3 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 224 amino acids (1-224 a.a.) and having a molecular mass of 25.1 kDa. FKBP3 is purified by proprietary chromatographic techniques. FKBP3 is part of a family of immunosuppressant receptors which inhibit T-cell proliferation by arresting two distinct cytoplasmic signal transmission pathways. FKBP3 accelerates the folding of proteins. FKBP3 is part of the immunophilin protein family, which participates in immunoregulation and fundamental cellular processes concerning protein folding and trafficking. FKBP3 is a cis-trans prolyl isomerase enzyme that binds the immunosuppressants FK506 and rapamycin, as well as histone deacetylases, the transcription factor YY1, casein kinase II, and nucleolin. It has a greater affinity for rapamycin than for FK506 and therefore is a significant protein for immunosuppression by rapamycin.

Product Info

Amount :	20 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The FKBP3 protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
Amino Acid :	MAAAVPQRAW TVEQLRSEQL PKKDIIKFLQ EHGSDSFLAE HKLLGNIKNV AKTANKDHLV TAYNHLFETK RFKGTESISK VSEQVKNVKL NEDKPKETKS EETLDEGPPK YTKSVLKKGD KTNFPKKGDV VHCWYTGTLQ DGTVFDTNIQ TSAKKKNAK PLSFKVGVGK VIRGWDEALL TMSKGEKARL EIEPEWAYGK KGQPDAKIPP NAKLTFEVEL VDID.

Application Note

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 25C in Tris-Hcl pH8.0 using chymotrypsin.