

FKBP3 Human

Description: 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.

Catalog #: ENPS-502

For research use only.

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

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MAAAVPQRAW TVEQLRSEQL PKKDIKFLQ EHGSDSFLAE
HKLLGNIKNV AKTANKDHLV TAYNHLFETK RFKGTESISK VSEQVKNVKL NEDKPKETKS
EETLDEGPPK YTKSVLKKGD KTNFPKKGDV VHCWYGTGLQ DGTVFDTNIQ TSAKKKKNAK
PLSFKVGVGK VIRGWDEALL TMSKGEKARL EIEPEWAYGK KGQPDAKIPP NAKLTFEVEL
VDID.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The FKBP3 protein solution contains 20mM Tris-HCl, pH-8, 1mM DTT and 10% glycerol.

Stability:

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

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.

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

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