

FKBP1B Human

Description: FKBP1B Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 130 amino acids (1-108) and having a molecular mass of 14.2kDa. FKBP1B is fused to a 22 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: ENPS-201

For research use only.

Synonyms: Peptidyl-prolyl cis-trans isomerase FKBP1B, PPIase FKBP1B, 12.6 kDa FK506-binding protein, 12.6 kDa FKBP, FKBP-12.6, FK506-binding protein 1B, FKBP-1B, Immunophilin FKBP12.6, Rotamase, h-FKBP-12, FKBP1B, FKBP12.6, FKBP1L, FKBP9, OTK4.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH RSMGVEIETI SPGDGRTFPK
KGQTCVVHYT GMLQNGKKFD SSRDRNKPFK FRIGKQEVK GFEEGAAQMS LGQRAKLTCT
PDVAYGATGH PGVIPPNATL IFDVELLNLE.

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

Formulation:

The FKBP1B solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 1mM DTT.

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:

Peptidyl-prolyl cis-trans isomerase FKBP1B (FKBP1B) belongs to the immunophilin protein family which has a role in immunoregulation and basic cellular processes involving protein folding and trafficking. FKBP1B is a cis-trans prolyl isomerase which binds the immunosuppressants FK506 (tacrolimus) and rapamycin (sirolimus). FKBP1B is extremely similar to the FK506-binding protein 1A. The physiological role of FKBP1B is thought to be in excitation-contraction coupling in cardiac muscle.

Biological Activity:

Specific activity is > 300 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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