

Fkbp1a,1-108aa , Mouse, His tag, E.coli

Cat.NO.: TP02133

3th Edition

Synonyms:Peptidyl-prolyl cis-trans isomerase FKBP1A, 12kDa, Fkbp, Fkbp1, FKBP12, FKBP12-T1, FKBP12-T2, mFKBP1, mFKBP12

Description:Fkbp1a also known as peptidyl-prolyl cis-trans isomerase FKBP1A belongs to the immunophilin protein family, which plays a role in immunoregulation and basic cellular processes involving protein folding and trafficking. Fkbp1a also plays a role in intracellular calcium regulation by associating with three types of calcium release channel complexes, cardiac and skeletal ryanodine receptors and the inositol 1, 4, 5-trisphosphate receptor. It interacts with several intracellular signal transduction proteins including type I TGF-beta receptor. Recombinant mouse Fkbp1a, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid, In Phosphate buffered saline (pH7.4) containing 20% glycerol, 1mM DTT

Molecular Weight:14.4kDa (132aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSHMGVQVETISPGDGRTFPKRGQTCVVHYTGMLLEDGKKFDSSSRDRNKPFFK
TLGKQEVIRGWEEGVAQMSVGQRAKLISSDYAYGATGHPGIIPPHATLVFDVELLKLE

Purity:> 95% by HPLC

Concentration:0.5mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.