

**PPP3R1, 1-170aa, Human, His tag, E.coli**

**Cat.NO.: TP03509**

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3th Edition

**Synonyms:**Protein phosphatase 3 regulatory subunit B alpha, Calcineurin subunit B type 1, CALNB1, CNB, CNB1.

**Description:**PPP3R1, also known as Calcineurin subunit B type 1, is a Ser/Thr-specific calcium and calmodulindependent protein phosphatase that plays an essential role in the T cell activation pathway. Calcineurin is composed of two subunits; calcineurin A (CnA) and calcineurin B (CnB). Dephosphorylation of the nuclear factor of activated T-cells (NF-AT) by Calcineurin is essential for NF-AT activation, nuclear translocation, and early gene expression in T-cells.

**Form:**Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

**Molecular Weight:**21.5 kDa (190aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGNEASYPLEMCSHFDADEIKRLGKRFFKLDLDNSGSLSVVEEFMSLPQLQQNPL  
VQRVIDIFDTDGNGEVDFKEFIEGVSQFSVKGDKEQKLRFAFRIYDMKDKGYISNGELFQVLKMMVGNLKDQLQ  
QIVDKTIINADKGDGRISFEEFCVVGGGLDIHKKMVVDV

**Purity:**> 95% by HPLC

**Concentration:**1 mg/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.