

Recombinant human Calcineurin B protein

Catalog Number: ATGP0901

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-170aa

UniProt No.

P63098

NCBI Accession No.

NP_000936

Alternative Names

Protein phosphatase 3 regulatory subunit B alpha, Calcineurin subunit B type 1, CALNB1, CNB, CNB1

PRODUCT SPECIFICATION

Molecular Weight

21.5 kDa (190aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PPP3R1, also known as Calcineurin subunit B type 1, is a Ser/Thr-specific calcium and calmodulin-dependent 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. Recombinant human PPP3R1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

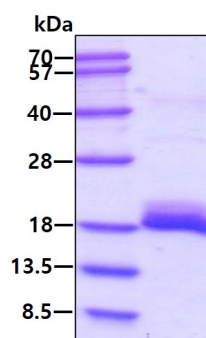
<MGSSHHHHHH SSGLVPRGSH> MGNEASYPLE MCSHFDADEI KRLGKRFKKL DLDNSGSLSV EEFMSLPELQ
QNPLVQRVID IFDTDGNGEV DFKEFIEGVS QFSVKGDKEQ KLRFAFRIYD MDKDGYSING ELFQVLKMMV GNNLKDTQLQ
QIVDKTIINA DKDGDGRISF EEFCVAVGGL DIHKKMVVDV

General References

Wang MG., et al. (1996) Cytogenet Cell Genet. 72(2-3):236-41.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.