

## Recombinant Human PPP3R1, His-tagged

**Cat. No.** PPP3R1-27208TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Calcineurin B with N terminal His tag; 190 amino acids with tag, MWt 21.5 kDa inclusive of tag,
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	170 amino acids
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	21.500kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 10% Glycerol, 0.1M Sodium chloride, 20mM Tris HCl, 2mM DTT, pH 8.0
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated

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freeze / thaw cycles.

**Sequences of amino acids**

MGSSHHHHHSSGLVPRGSHMGNEASYPLEMCSHFDADEIKRLGKRFFKKLDL DNS  
 GSLSVEEFMSLPELQQNPLVQRVIDIFDTDGNGEVDFKEFIEGVSQFSVKGDKEQKL  
 RFAFRIYDMDKDG YISNGELFQVLKMMVGNLKD TQLQQIVDKTIINADKDG DGRISF  
 EEFCVVGLDIHKM VVDV

**Sequence Similarities**

Belongs to the calcineurin regulatory subunit family. Contains 4 EF-hand domains.

## GENE INFORMATION

**Gene Name**

PPP3R1 protein phosphatase 3, regulatory subunit B, alpha [ Homo sapiens ]

**Official Symbol**

PPP3R1

**Synonyms**

PPP3R1; protein phosphatase 3, regulatory subunit B, alpha; protein phosphatase 3 (formerly 2B), regulatory subunit B (19kD), alpha isoform (calcineurin B, type I) , protein phosphatase 3 (formerly 2B), regulatory subunit B, 19kDa, alpha isoform (calcine

**Gene ID**

5534

**mRNA Refseq**

NM\_000945

**Protein Refseq**

NP\_000936

**MIM**

601302

**Uniprot ID**

P63098

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<b>Chromosome Location</b>	2p14
<b>Pathway</b>	Activation of BAD and translocation to mitochondria, organism-specific biosystem; Activation of BH3-only proteins, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem;
<b>Function</b>	calcium ion binding; calcium-dependent protein serine/threonine phosphatase activity; calmodulin binding; phosphoprotein phosphatase activity;

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