

[Go to Product page](#)

Datasheet for ABIN7197576 PPP3CA Protein (His tag)

Overview

Quantity:	50 µg
Target:	PPP3CA
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PPP3CA protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PPP3CA/CALNA Protein (His Tag)(Active)
Sequence:	Ser2-Gln521
Characteristics:	A DNA sequence encoding the human PPP3CA (Q08209-1) (Ser2-Gln521) was fused with a polyhistidine tag at the N-terminus.
Purity:	> 94 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Using the Octet RED System, the affinity constant (Kd) of human PPP3CA-His bound to Human PPIA-His was 0.9 nM.

Target Details

Target:	PPP3CA
---------	--------

Target Details

Alternative Name:	PPP3CA/CALNA (PPP3CA Products)
Background:	<p>Background: PPP3CA, also known as protein phosphatase 2B, is a member of the PPP phosphatase family, PP-2B subfamily. It is the alpha catalytic subunit of protein phosphatase 2B (PP2B). PP2B is a holoenzyme that is comprised of a catalytic subunit associated with regulatory subunits. It is a calcium regulated enzyme that is activated by calmodulin and participates in the signaling cascades involved in development of the nervous, cardiovascular, and musculoskeletal systems. PPP3CA activates the T cells of the immune system and can be blocked by drugs. It also activates NFATc (a transcription factor) by dephosphorylating it. The activated NFATc is subsequently translocated into the nucleus, where it upregulates the expression of interleukin 2. PPP3CA interacts with CRTC2, MYOZ1, MYOZ2 and MYOZ3. It also interacts with DNM1L. The interaction dephosphorylates DNM1L and regulates its translocation to mitochondria.</p> <p>Synonym: CALN,CALNA,CALNA1,CCN1,CNA1,PPP2B</p>
Molecular Weight:	60.8 kDa
Pathways:	RTK Signaling , WNT Signaling , Fc-epsilon Receptor Signaling Pathway , Negative Regulation of Hormone Secretion , Carbohydrate Homeostasis , Synaptic Membrane , Skeletal Muscle Fiber Development , Protein targeting to Nucleus , VEGF Signaling , BCR Signaling

Application Details

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 8.0, 10 % glycerol
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.