PPP3CA Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	PPP3CA, Blocking Peptide
Full Product Name	PPP3CA Blocking Peptide
Product Gene Name	PPP3CA blocking peptide
Product Synonym Names	Alpha isoform formerly PPP2B; Calcineurin A alpha; Calcineurin A1; CalcineurinA; Calmodulin dependent calcineurin A subunit alpha isoform; Calmodulin-dependent calcineurin A subunit alpha isoform; CALN; CALNA 1; CALNA; CALNA1; CAM PRP catalytic subunit; CAM-PRP catalytic subunit; CCN 1; CCN1; CNA 1; CNA alpha; CNA; CNA1; PP2BA_HUMAN; PPP2B; Ppp3ca; Protein phosphatase 2B catalytic subunit; Protein phosphatase 3 (formerly 2B) catalytic subunit alpha isoform; Protein phosphatase 3 catalytic subunit alpha isoform PPP3CA; Protein phosphatase 3 catalytic subunit alpha isozyme; Serine/threonine protein phosphatase 2B catalytic subunit alpha isoform; Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	PPP3CA peptide (MBS9625584) is used for blocking the activity of PPP3CA antibody (MBS9606867)
Molecular Weight	51,245 Da
OMIM	114105
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for PPP3CA blocking peptide	Blocking/Control
Related Product Information for PPP3CA blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of PPP3CA blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PPP3CA purchase	MBS9625584 is a blocking peptide targeting PPP3CA.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PPP3CA. It may not necessarily be applicable to this product.

NCBI GI #	6715568
NCBI GeneID	5530

NCBI Accession #	NP_000935.1
UniProt Primary Accession #	Q08209
UniProt Secondary Accession #	Q8TAW9; A1A441; A8K3B7; A8W6Z7; A8W6Z8; B5BUA2
UniProt Related Accession #	Q08209
GenBank Nucleotide #	NM_000944.4
NCBI Official Full Name	serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform isoform 1
NCBI Official Synonym Full Names	protein phosphatase 3, catalytic subunit, alpha isozyme
NCBI Official Symbol	PPP3CA
NCBI Official Synonym Symbols	CALN; CCN1; CNA1; CALNA; PPP2B; CALNA1
UniProt Protein Name	Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform
UniProt Synonym Protein Names	CAM-PRP catalytic subunit; Calmodulin-dependent calcineurin A subunit alpha isoform
Protein Family	Serine/threonine-protein phosphatase
UniProt Gene Name	PPP3CA
UniProt Synonym Gene Names	CALNA; CNA
UniProt Entry Name	PP2BA_HUMAN
NCBI Protein Information	serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform; CAM-PRP catalytic subunit; calcineurin A alpha; calmodulin-dependent calcineurin A subunit alpha isoform; protein phosphatase 2B, catalytic subunit, alpha isoform; protein phosphatas
UniProt Comments for PPP3CA	PPP3CA: a calmodulin-dependent Ser/Thr phosphatase also known calcineurin A alpha. Involved in a wide range of biologic activities, acting as a Ca(2)-dependent modifier of phosphorylation status. Dephosphorylates HSPB1. The calcineurin holoenzyme is composed of catalytic and regulatory subunits of 60 and 18 kD, respectively. . Protein type: Protein phosphatase, Ser/Thr (non-receptor); EC 3.1.3.16 Chromosomal Location of Human Ortholog: 4q24 Cellular Component: nucleoplasm; mitochondrion; cytoplasm; Z disc; cytosol; calcineurin complex; sarcolemma Molecular Function: calmodulin binding; protein dimerization activity; protein binding; enzyme binding; calmodulin-dependent protein phosphatase activity; protein heterodimerization activity; protein serine/threonine phosphatase activity; drug binding; calcium ion binding Biological Process: regulation of synaptic transmission; positive regulation of NFAT protein import into nucleus; T cell activation; response to amphetamine; skeletal muscle fiber development; protein amino acid dephosphorylation; negative regulation of insulin secretion; calcineurin-NFAT signaling pathway; transition between fast and slow fiber; dephosphorylation; protein import into nucleus; calcium ion transport; innate immune response; positive regulation of transcription from RNA polymerase II promoter; response to calcium ion; regulation of excitatory postsynaptic membrane potential; multicellular organismal response to stress; G1/S transition of mitotic cell cycle
Research Articles on PPP3CA	**1.** Human herpesvirus 6B U54 binds the calcineurin (CaN) phosphatase enzyme, causing improper dephosphorylation and nuclear translocation of NFAT (nuclear factor of activated T cells) proteins, resulting in suboptimal IL-2 gene transcription.
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