

Product datasheet for **AR09801PU-N**

PPP3CA / Calcineurin A (1-511, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	PPP3CA / Calcineurin A (1-511, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> <u>TGSMSEPKAI</u> DPKLSTTDRV VKAVPFPPSH RLTAKEVFDN DGKPRVDILK AHLMKEGRL ESVLRRIITE GASILRQEKN LLDIDAPVTV CGDIHGQFFD LMKLFEVGGG PANTRYLFLG DYVDRGYFSI ECVLYLWALK ILYPKTLFLL RGNHECRHLT EYFTFKQECK IKYSERVYDA CMDAFDCLPL AALMNQQFLC VHGLSPEIN TLDDIRKLDL RKEPPAYGPM CDILWSDPLE DFGNEKTQEH FTHNTVRGCS YFYSPAVCE FLQHNLLSI LRAHEAQDAG YRMYRKSQTT GFPSLITIFS APNYLDVYNN KAAVLKYENN VMNIRQFNCS PHPYWLPNFM DVFTWLSLPFV GEKVTEMLVN VLNICSDDEL GSEEDGFDGA TAAARKEVIR NKIRAIGKMA RVFVSLREES ESVLTLKGLT PTGMPLPSGVL SGGKQTLQSA IKGFSQHKI TSFEEAKGLD RINERMPPRR DAMPSDANLN SINKALTSET NGTDSNGSNS SNIQ
Tag:	His-tag
Predicted MW:	60 kDa
Concentration:	lot specific
Purity:	>85%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5 mM DTT, 1 mM EDTA, 20% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human PPP3CA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_000935</u>
Locus ID:	5530



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UniProt ID:	Q08209
Cytogenetics:	4q24
Synonyms:	CALNA, CNA, PP2B catalytic subunit, protein phosphatase 2B catalytic subunit alpha
Summary:	Calcium-dependent, calmodulin-stimulated protein phosphatase which plays an essential role in the transduction of intracellular Ca(2+)-mediated signals (PubMed:15671020, PubMed:18838687, PubMed:19154138, PubMed:23468591). Many of the substrates contain a PxlxIT motif and/or a LxVP motif (PubMed:17498738, PubMed:17502104, PubMed:23468591, PubMed:27974827, PubMed:22343722). In response to increased Ca(2+) levels, dephosphorylates and activates phosphatase SSH1 which results in cofilin dephosphorylation (PubMed:15671020). In response to increased Ca(2+) levels following mitochondrial depolarization, dephosphorylates DNM1L inducing DNM1L translocation to the mitochondrion (PubMed:18838687). Dephosphorylates heat shock protein HSPB1 (By similarity). Dephosphorylates and activates transcription factor NFATC1 (PubMed:19154138). In response to increased Ca(2+) levels, regulates NFAT-mediated transcription probably by dephosphorylating NFAT and promoting its nuclear translocation (PubMed:26248042). Dephosphorylates and inactivates transcription factor ELK1 (PubMed:19154138). Dephosphorylates DARPP32 (PubMed:19154138). May dephosphorylate CRTC2 at 'Ser-171' resulting in CRTC2 dissociation from 14-3-3 proteins (PubMed:30611118).[UniProtKB/Swiss-Prot Function]
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Axon guidance, B cell receptor signaling pathway, Calcium signaling pathway, Long-term potentiation, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Oocyte meiosis, T cell receptor signaling pathway, VEGF signaling pathway, Wnt signaling pathway

Product images: