

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 E. coli **Expression Host:** MGSSHHHHHH SSGLVPRGSH TGSMSEPKAI DPKLSTTDRV VKAVPFPPSH RLTAKEVFDN **Expression cDNA Clone** or AA Sequence: DGKPRVDILK AHLMKEGRLE ESVALRIITE GASILRQEKN LLDIDAPVTV CGDIHGQFFD LMKLFEVGGS PANTRYLFLG DYVDRGYFSI ECVLYLWALK ILYPKTLFLL RGNHECRHLT EYFTFKQECK IKYSERVYDA CMDAFDCLPL AALMNQQFLC VHGGLSPEIN TLDDIRKLDR FKEPPAYGPM CDILWSDPLE DFGNEKTQEH FTHNTVRGCS YFYSYPAVCE FLQHNNLLSI LRAHEAQDAG YRMYRKSQTT GFPSLITIFS APNYLDVYNN KAAVLKYENN VMNIRQFNCS PHPYWLPNFM DVFTWSLPFV GEKVTEMLVN VLNICSDDEL GSEEDGFDGA TAAARKEVIR NKIRAIGKMA RVFSVLREES ESVLTLKGLT PTGMLPSGVL SGGKQTLQSA IKGFSPQHKI TSFEEAKGLD RINERMPPRR DAMPSDANLN SINKALTSET NGTDSNGSNS SNIQ Tag: His-tag Predicted MW: 60 kDa Concentration: lot specific >85% Purity: **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. Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Storage: Avoid repeated freezing and thawing. Shelf life: one year from despatch. Stability: **RefSeq:** NP 000935 Locus ID: 5530

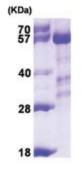


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	PPP3CA / Calcineurin A (1-511, His-tag) Human Protein – AR09801PU-N
UniProt ID:	<u>Q08209</u>
Cytogenetics:	4q24
Synonyms:	CALNA, CNA, PP2B catalytic subunit, protein phosphatase 2B catalytic subunit alpha
Summary:	Calcium-dependent, calmodulin-stimulated 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 PxIxIT 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 dephosphorylates and inactivates transcription factor ELK1 (PubMed:26248042). 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 Pathway	/s: 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 imag	ges:



15% SDS-PAGE (3ug)

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