
Product Data Sheet

Product Name: PPP3CA Human

Cat. No.: GP22147

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform; CAM-PRP catalytic subunit; Calmodulin-dependent calcineurin A subunit alpha isoform; PPP3CA; CALNA; CAN; CALN; CCN1; CNA1; PPP2B; CALNA1.		
Amino Acid Sequence	<p>MGSSHHHHHH SGLVPRGSH TGSMSPEKAI DPKLSTTDRV VKAVPFPPSH RLTAKEVFDN DGKPRVDILK AHLMKEGRLE ESVALRIITE GASILRQEKN LLDIDAPVTV CGDIHGQFFD LMKLFEVGGG PANTRYLFLG DYVDRGYFSI ECVLYLWALK ILYPKTLFLL RGNHECRHLT EYFTFKQECK IKYSERVYDA CMDAFDCLPL AALMNQQFLC VHGGLSPEIN TLDDIRKLDL FKEPPAYGPM CDILWSDPLE DFGNEKTQEH FTHNTVRGCS YFYSYPAVCE FLQHNNLLSI LRAHEAQDAG YRMYRKSQTT GFPSLITIFS APNYLDVYNN KAAVLKYENN VMNIRQFNCS PHPYWLPNFM DVFTWVSLPFV GEKVTEMLVN VLNICSDDEL GSEEDGFDGA TAAARKEVIR NKIRAIGKMA RVFVSLREES ESVLTLLKGLT PTGMLPSGVL SGGKQTLQSA IKGFSPPQHKI TSFEEAKGLD RINERMPPRR DAMPSDANLN SINKALTSET NGTDSNGSNS SNIQ.</p>		
Formulation	The PPP3CA solution (0.25 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 5mM DTT, 1mM EDTA and 20% glycerol.		

Introduction

PPP3CA (aka Calcineurin A) is a major soluble calmodulin binding protein in the brain and a Ca²⁺/calmodulin dependent serine/threonine protein phosphatase, with a relatively limited substrate specificity. PPP3CA activates the T cells of the immune system and can be blocked by drugs. PPP3CA 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

PPP3CA Human Recombinant fused with a 23 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 534 amino acids (1-511 a.a.) and having a molecular mass of 60kDa. The PPP3CA is purified by proprietary chromatographic techniques.

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