

Recombinant human Calcineurin A/PPP3CA protein

Catalog Number: ATGP0861

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-511aa

UniProt No.

Q08209

NCBI Accession No.

NP_001124163

Alternative Names

Protein phosphatase 3 catalytic subunit alpha, CAM-PRP catalytic subunit, Calcineurin A alpha, Calmodulin-dependent calcineurin A subunit alpha isoform, CNA alpha, Serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform, CALNA, CALN, CNA, CNA1, PPP2B

PRODUCT SPECIFICATION

Molecular Weight

60 kDa (534aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 5mM DTT, 1mM EDTA, 20% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

PPP3CA, also known as Calcineurin A, is a major soluble calmodulin binding protein in the brain, a Ca²⁺/calmodulin dependent serine/threonine protein phosphatase, with a relatively narrow substrate specificity. It 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 then translocated into the nucleus, where it

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upregulates the expression of interleukin 2. Recombinant human PPP3CA protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH TGSMSEPKAI DPKLSTTDRV VKAVPFPPSH RLTAKEVFDN DGKPRVDILK AHLMKEGRLE
ESVALRIITE GASILRQEKD LLDIDAPVTV CGDIHGQFFD LMKLFEVGGG PANTRYLFLG DYVDRGYFSI ECVLYLWALK
ILYPKTLFLL RGNHECRHLT EYFTFKQECK IKYSERVYDA CMDAFDCLPL AALMNQQFLC VHGGLSPEIN TLDDIRKLDR
FKEPPAYGPM CDILWSDPLE DFGNEKTQEH FTHNTVRGCS YFYSYPAVCE FLQHNNLLSI LRAHEAQDAG YRMYRKSQTT
GFPSLITIFS APNYLDVYNN KAAVLKYENN VMNIRQFNCS PHPYWLPNFM DVFTWVSLPFV GEKVTEMLVN VLNICSDDEL
GSEEDGFDGA TAAARKEVIR NKIRAIGKMA RVFVSLREES ESVLTLKGLT PTGMLPSGVL SGGKQTLQSA IKGFSPOHKI
TSFEEAKGLD RINERMPPRR DAMPSDANLN SINKALTSET NGTDSNGSNS SNIQ

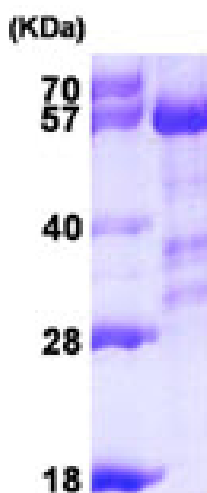
General References

Ostenfeld MS., et al. (2010) *Oncogene*. 29(7):1073-84.

Rodriguez A., et al. (2009) *Mol Cell*. 33(5):616-26.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3 μ g)