

# Recombinant human CAMK2N1 protein

Catalog Number: ATGP2567

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-78aa

### UniProt No.

Q7Z7J9

### NCBI Accession No.

NP\_061054

### Alternative Names

Calcium/calmodulin-dependent protein kinase II inhibitor 1, CaMKII inhibitory protein alpha, CaMKIIN-alpha

## PRODUCT SPECIFICATION

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### Molecular Weight

10.9 kDa (101aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

### Purity

> 90% 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

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### Description

CAMK2N1 belongs to the CAMK2N family. This protein interacts with CAMK2B; the presence of Ca<sup>2+</sup>/calmodulin increases the interaction but is not essential. It also interacts with CAMK2A; this interaction requires CAMK2A activation by Ca<sup>2+</sup>. CAMK2N1 is potent and specific inhibitor of CaM-kinase II (CAMK2). Recombinant human CAMK2N1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSMSEVLPY GDEKLSPYGD GGDVGQIFSC RLQDTNNFFG AGQNKRPPL  
GQIGRSKRVV IEDDRIDDVL KNMTDKAPPG V

## General References

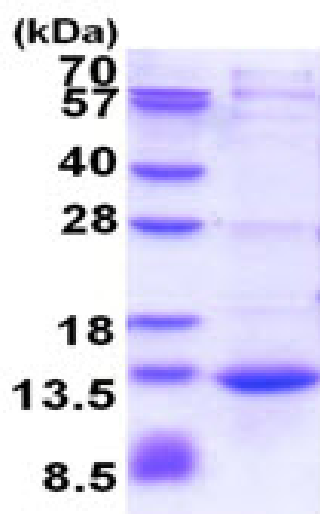
Wang,C., et al. (2008) . Biol. Chem. 283 (17), 11565-11574

Meng,F., et al. (2003) Brain Res. 967 (1-2), 161-169

## DATA

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### SDS-PAGE



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

15% SDS-PAGE (3ug)