

# Recombinant human CAMK2N2 protein

Catalog Number: ATGP2776

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-79aa

### UniProt No.

Q96S95

### NCBI Accession No.

NP\_150284

### Alternative Names

Calcium/calmodulin-dependent protein kinase II, CAM-KIIN, CAMKIIN

## PRODUCT SPECIFICATION

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### Molecular Weight

11.0 kDa (102aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

### Purity

> 95% 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

Calcium/calmodulin-dependent protein kinase II, also known as CAMK2N2, is potent and specific cellular inhibitor of CaM-kinase II (CAMK2). This protein may play an important role in the regulation of cell growth when overexpressed in colon adenocarcinoma LoVo cells. Recombinant human CAMK2N2 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 MGS>MSEILPY SEDKMGRFGA DPEGS DLSFS CRLQDTNSFF AGNQAKRPPK

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LGQIGRAKRV VIEDDRIDDV LKGMGEKPPS GV

## General References

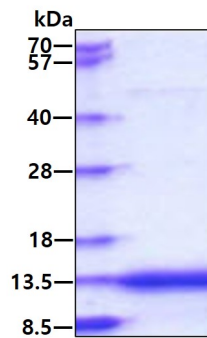
Zhang J., et al. (2001) *Biochem. Biophys. Res. Commun.* 285:229-234

Ma S., et al. (2009) *J. Biol. Chem.* 284:24773-24782

## DATA

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### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.