

## Recombinant Human CAMK2N1, His-tagged

**Cat. No.** CAMK2N1-5071H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CAMK2N1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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).
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
<b>Molecular Mass</b>	10.9kDa (101aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSMSEVLPY GDEKLSPYGD GGDVGGQIFSC RLQDTNFFFG AGQNKRPPLK GQIGRSKRVV IEDDRIDDVL KNMTDKAPPG V
<b>Purity</b>	>90% by SDS - PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot

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and store at -20centigrade or -70centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** CAMK2N1 calcium/calmodulin-dependent protein kinase II inhibitor 1 [ Homo sapiens (human) ]

**Official Symbol** CAMK2N1

**Synonyms** CAMK2N1;PRO1489; RP11-401M16.1;calcium/calmodulin-dependent protein kinase II inhibitor 1;CaMKIINalpha;caMKIIN-alpha;caMKII inhibitory protein alpha

**Gene ID** 55450

**mRNA Refseq** NM\_018584.5

**Protein Refseq** NP\_061054.2

**MIM** 614986

**UniProt ID** Q7Z7J9

**Chromosome Location** 1p36.12

**Function** calcium-dependent protein kinase inhibitor activity;protein kinase binding

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