

# Recombinant Human calcium/calmodulin-dependent protein kinase II inhibitor 1, His-tagged

Cat. No. CAMK2N1-470H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	CAMK2N1, 1-78aa Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-78 a.a.
<b>Description</b>	<p>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.</p>
<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 SGLVPRGSH MGSMSEVLPY GDEKLSPYGD GGDVGQIFSC RLQDTNFFFG AGQNKRPPLK GQIGRSKRVV IEDDRIDDLV KNMTDKAPPG V
<b>Purity</b>	>90% by SDS - PAGE

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**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. 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 \[ Homo sapiens \]](#)

**Official Symbol** CAMK2N1

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

**Gene ID** [55450](#)

**mRNA Refseq** [NM\\_018584.5](#)

**Protein Refseq** [NP\\_061054.2](#)

**UniProt ID** [Q7Z7J9](#)

**Chromosome Location** 1p36.12

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

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