

# 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>.</p> <p>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>      | <p>MGSSHHHHHH SSGLVPRGSH MGSMSEVLPY GDEKLSPYGD GGDVGQIFSC</p> <p>RLQDTNFFFG AGQNKRPPLK GQIGRSKRVV IEDDRIDDLV KNMTDKAPPG V</p>                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | >90% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | 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. |
| <b>Concentration</b>       | 0.25 mg/ml (determined by Bradford assay)                                                                                                          |
| <b>GENE INFORMATION</b>    |                                                                                                                                                    |
| <b>Gene Name</b>           | CAMK2N1 calcium/calmodulin-dependent protein kinase II inhibitor 1 [ Homo sapiens ]                                                                |
| <b>Official Symbol</b>     | CAMK2N1                                                                                                                                            |
| <b>Synonyms</b>            | PRO1489; RP11-401M16.1; calcium/calmodulin-dependent protein kinase II inhibitor 1; CaMKIINalpha; CAMK2N1                                          |
| <b>Gene ID</b>             | 55450                                                                                                                                              |
| <b>mRNA Refseq</b>         | NM_018584.5                                                                                                                                        |
| <b>Protein Refseq</b>      | NP_061054.2                                                                                                                                        |
| <b>UniProt ID</b>          | Q7Z7J9                                                                                                                                             |
| <b>Chromosome Location</b> | 1p36.12                                                                                                                                            |
| <b>Function</b>            | calcium-dependent protein kinase inhibitor activity; protein kinase binding                                                                        |

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