

AR51387PU-S

Human CAMK2N1 (1-78, His-tag) - Purified

Alternate names:

Calcium/calmodulin-dependent protein kinase II inhibitor 1

Quantity:

50 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

CAMK2N1 belongs to the CAMK2N family. This protein interacts with CAMK2B; the presence of Ca²⁺/calmodulin increases the interaction but is not essential. It also interacts with CAMK2A; this interaction requires CAMK2A activation by Ca²⁺. CAMK2N1 is potent and specific inhibitor of CaM-kinase II (CAMK2).

Uniprot ID:

[Q7Z7I9](#)

NCBI:

[NP_061054](#)

GeneID:

[55450](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

Description:

Recombinant human CAMK2N1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MGSMSEVL PY GDEKLSPYGD GGDVGQIFSC RLQDTNFFFG
AGQNKRPPLK GQIGRSKR VV IEDDRIDDVL KNMTDKAPPG V

Molecular weight: 10.9 kDa (101aa), confirmed by MALDI-TOF

Storage:

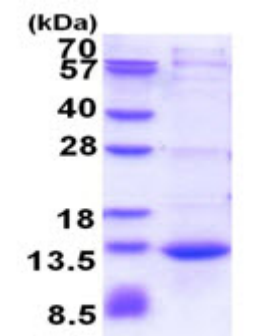
Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

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

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

Pictures:



15% SDS-PAGE (3ug)