Recombinant human CAMK2N1 protein

Catalog Number: ATGP2567

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-78aa

UniProt No.
Q7Z7J9

NCBI Accession No.
NP_061054

Alternative Names
Calcium/calmodulin-dependent protein kinase II inhibitor 1, CaMKII inhibitory protein alpha, CaMKIIN-alpha

PRODUCT SPECIFICATION

Molecular Weight
10.9 kDa (101aa) confirmed by MALDI-TOF

Concentration
0.25mg/ml (determined by Bradford assay)

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

Purity
> 90% 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

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

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Amino acid Sequence

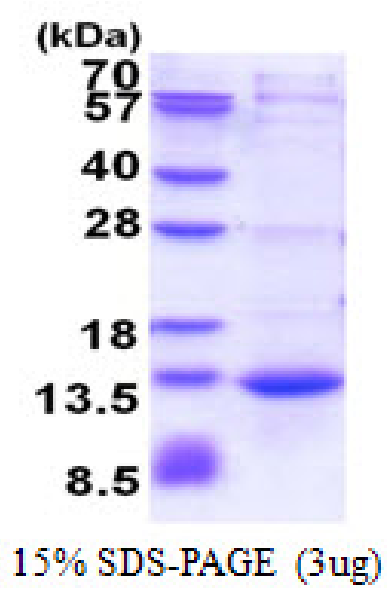
MGSSHHHHHH SSGLVPRGSH MGSMSEVLPY GDEKLSPYGD GGDVGQIFSC RLQDTNNFFG AGQNKRPPKL GQIGRSKRVV IEDDRIDDVL KNMTDKAPPG V

General References

Wang,C., et al. (2008) . Biol. Chem. 283 (17), 11565-11574
Meng,F., et al. (2003) Brain Res. 967 (1-2), 161-169

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.