

Recombinant mouse CAMK2N1 protein

Catalog Number: ATGP3556

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-78aa

UniProt No.

Q6QWF9

NCBI Accession No.

NP_079727

Alternative Names

Calcium/calmodulin-dependent protein kinase II inhibitor 1, Calcium/calmodulin-dependent protein kinase II inhibitor alpha, mCaMKIINalpha

PRODUCT SPECIFICATION

Molecular Weight

10.9 kDa (101aa) Confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 1mM DTT, 0.1M NaCl, 10% glycerol

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, also known as Calcium/calmodulin-dependent protein kinase II inhibitor 1, 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 mouse 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

<MGSSHHHHH SSGLVPRGSH MGS>MSEVLPY GDEKLSPYGD GGDVGGQIFSC RLQDTNFFG AGQSKRPPKL
GQIGRSKRVV IEDDRIDDVL KTMTDKAPPG V

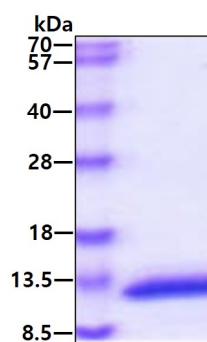
General References

Wang C., et al. (2008) J Biol Chem. 283(17):11565-74.

Meng F., et al. (2003) Brain Res. 967(1-2): 161-9.

DATA

SDS-PAGE



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