

Camk2n1, 1-78aa, Mouse, His-tag, E.coli

Cat.NO.: TP01413

3th Edition

Synonyms: Calcium/calmodulin-dependent protein kinase II inhibitor 1, 1810006K23Rik, AI848599, AI89176

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.

Form: Liquid. In 20mM Tris-HCl (pH8.5) containing 1mM DTT, 0.1M NaCl, 10% glycerol

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

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMSEVLPYGDEKLSPYGDGGDVGQIFSCRLQDTNFFGAGQSKRPPKLGQI
GRSKRVVIEDDRIDDVLKTMTDKAPPGV

Purity: > 95% by HPLC

Concentration: 0.5mg/ml (determined by BCA Assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.