

Product datasheet for PH311256

CAMK2N2 (NM_033259) Human Mass Spec Standard

Product data:

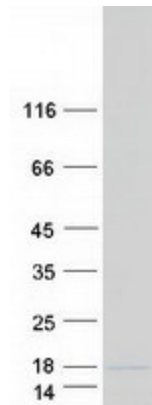
Product Type:	Mass Spec Standards
Description:	CAMK2N2 MS Standard C13 and N15-labeled recombinant protein (NP_150284)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC211256
Predicted MW:	8.7 kDa
Protein Sequence:	>RC211256 protein sequence Red =Cloning site Green =Tags(s) MSEILPYSEDKMGRFGADPEGSDFSCRLQDTNSFFAGNQAKRPPKLGQIGRAKRVIEDDRIDDLVKG MGEKPPSGV TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_150284
RefSeq Size:	1360
RefSeq ORF:	237
Synonyms:	CAM-KIIN; CAMKIIN
Locus ID:	94032
UniProt ID:	Q96S95
Cytogenetics:	3q27.1



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Summary:

This gene encodes a protein that is highly similar to the rat CaM-KII inhibitory protein, an inhibitor of calcium/calmodulin-dependent protein kinase II (CAMKII). CAMKII regulates numerous physiological functions, including neuronal synaptic plasticity through the phosphorylation of alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid-type glutamate (AMPA) receptors. Studies of the similar protein in rat suggest that this protein may function as a negative regulator of CaM-KII and may act to inhibit the phosphorylation of AMPA receptors. [provided by RefSeq, Jul 2008]

Product images:

Coomassie blue staining of purified CAMK2N2 protein (Cat# [TP311256]). The protein was produced from HEK293T cells transfected with CAMK2N2 cDNA clone (Cat# [RC211256]) using MegaTran 2.0 (Cat# [TT210002]).