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Product datasheet for PH305809

CACNG6 (NM_145814) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CACNG6 MS Standard C13 and N15-labeled recombinant protein (NP_665813)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205809
Predicted MW:	27.9 kDa
Protein Sequence:	>RC205809 representing NM_145814 Red=Cloning site Green=Tags(s) MMWSNFFLQEENRRRGAAGRRRAHGQGRSGLTPEREGKVKLALLLAAVGATLAVLSVGTEFWVELNTYKA NGSAVCEAAHLGLWKACTKRLWQADVPVDRDTCGPAELPGEANCTYFKFFTTGENARIFQRTTKKEVNLA AAVIAVLGLAVMALGCLCIIMVLSKGAEFLLRVGAVCFGLSGLLLLVSLEVFRHSVRALLQRVSPEPPPA PRLTYEYSWSLGCGVGAGLILLLGAGCFLLLTLPSWPWGSLCPKRGHRAT 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_665813
RefSeq Size:	1886
RefSeq ORF:	780
Locus ID:	59285
UniProt ID:	Q9BXT2
Cytogenetics:	19q13.42

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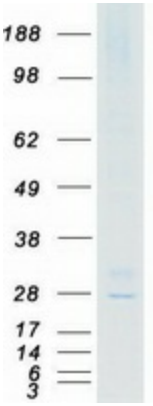
Summary: Voltage-dependent calcium channels are composed of five subunits. The protein encoded by this gene represents one of these subunits, gamma, and is one of two known gamma subunit proteins. This particular gamma subunit is an integral membrane protein that is thought to stabilize the calcium channel in an inactive (closed) state. This gene is part of a functionally diverse eight-member protein subfamily of the PMP-22/EMP/MP20 family and is located in a cluster with two family members that function as transmembrane AMPA receptor regulatory proteins (TARPs). Alternative splicing results in multiple transcript variants. Variants in this gene have been associated with aspirin-intolerant asthma. [provided by RefSeq, Dec 2010]

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway

Product images:



Coomassie blue staining of purified CACNG6 protein (Cat# [TP305809]). The protein was produced from HEK293T cells transfected with CACNG6 cDNA clone (Cat# [RC205809]) using MegaTran 2.0 (Cat# [TT210002]).