

Product datasheet for PH304695

CASQ2 (NM_001232) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CASQ2 MS Standard C13 and N15-labeled recombinant protein (NP_001223)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204695
Predicted MW:	46.4 kDa
Protein Sequence:	>RC204695 protein sequence Red=Cloning site Green=Tags(s)

MKRTHLFIVGIYFLSSCRAEEGLNFPTYDGKDRVVSLSEKNFKQVLKKYDLLCLYYHEPVSSDKVTQKQF
QLKEIVLELVAQVLEHKAIGFVMVDAKKEAKLAKKLGFDDEEGLYILKGDRTIEFDGEFAADVLEFLLD
LIEDPVEIISSEKLEVQAFERIEDYIKLIGFFKSEDSSEYKAFEEAAEHFQPYIKFFATFDKGVAKKLSLK
MNEVDFYEPFMDPEIAIPNKPYTEEELVEFVKEHQRPTRLRRLRPEEMFETWEDDLNGIHI VAF AEKSDPD
GYEFLEILKQVARDNTDNPDL SILWIDPDDFPLL VAYWEKTFKIDLFRPQIGVVNVT DADSVWMEIPDDD
DLPTAELEDWIEDVLSGKINTEDEDDDDDDNSDEEDNDDSDDDDE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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:	<u>NP_001223</u>
RefSeq Size:	2716
RefSeq ORF:	1197
Synonyms:	PDIB2
Locus ID:	845



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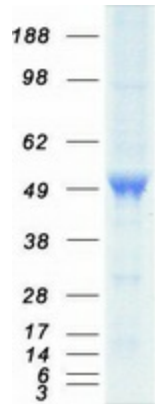
UniProt ID: [O14958](#)

Cytogenetics: 1p13.1

Summary: The protein encoded by this gene specifies the cardiac muscle family member of the calsequestrin family. Calsequestrin is localized to the sarcoplasmic reticulum in cardiac and slow skeletal muscle cells. The protein is a calcium binding protein that stores calcium for muscle function. Mutations in this gene cause stress-induced polymorphic ventricular tachycardia, also referred to as catecholaminergic polymorphic ventricular tachycardia 2 (CPVT2), a disease characterized by bidirectional ventricular tachycardia that may lead to cardiac arrest. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified CASQ2 protein (Cat# [TP304695]). The protein was produced from HEK293T cells transfected with CASQ2 cDNA clone (Cat# [RC204695]) using MegaTran 2.0 (Cat# [TT210002]).