

Recombinant Human CASQ2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CASQ2-6334H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CASQ2 MS Standard C13 and N15-labeled recombinant protein (NP_001223) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	46.4 kDa
AA Sequence	MKRTHLFIVGIYFLSSCRAEEGLNFPTYDGKDRVVSLSEKNFKQVLKKYDLLCLYYHE PVSSDKVTQKQFQLKEIVLELVAQVLEHKAIGFVMVDAKKEAKLAKKLGFDDEESLYI LKGDRTIEFDGEFAADVLVEFLDLIEDPVEIISSKLEVQAFERIEDYIKLIGFFKSEDSE YYKAFEEAAEHFQPYIKFFATFDKGVAKKLSLKMNEVDIFYEPFMDEPIAIPNKPYTEE ELVEFVKEHQRPTRLRRLRPEEMFETWEDDLNGIHIVAFAEKSDPDGYEFLEILKQVA RDNTDNPDSLILWIDPDDFPLLVAWYWEKTFKIDLFRPQIGVVNVTDADSVWMEIPDDD

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	DLPTAEELEDWIEDVLSGKINTEDDDDEDDDDDDNSDEEDNDDSDDDDDDETRTRPLE QKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	CASQ2 calsequestrin 2 [Homo sapiens (human)]
Official Symbol	CASQ2
Synonyms	CASQ2; calsequestrin 2 (cardiac muscle); calsequestrin-2; PDIB2; calsequestrin, cardiac muscle isoform; calsequestrin 2, fast-twitch, cardiac muscle; FLJ26321; FLJ93514;
Gene ID	845
mRNA Refseq	NM_001232
Protein Refseq	NP_001223
MIM	114251

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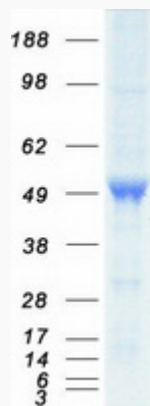
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UniProt ID

O14958

SDS-PAGE

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