

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

MKRTHLFIVGIYFLSSCRAEEGLNFPTYDGKDRVVSLSSEKNFKQVLKKYDLLCLYYHE
 PVSSDKVTQKQFQLKEIVLELVAQVLEHKAIGFVMVDAKKEAKLAKKLGFDDEESLYI
 LKGDRTIEFDGEFAADVLEFLLDLIEDPVEIISSEKLEVQAFERIEDYIKLIGFFKSE
 DSEYYKAFEEAAEHFQPYIKFFATFDKGVAKKLSLKMNEVDFYEPFMDEPIAIPNKP
 YTEEELVEFVKEHQRPTRLRRLRPEEMFETWEDDLNGIHIVAFAEKSDPDGGEYFLE
 ILKQVARDNTDNPDSLILWIDPDDFPLLVAYWEKTFKIDLFRPQIGVVNVTADSVWME
 IPDDD

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

DLPTAEELEDWIEDVLSGKINTEDEDDDEDDDDDDNSDEEDNDDSDDDDDDETRTRPLE
 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID

O14958

SDS-PAGE



 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA