9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
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CASQ2 Human

Calsequestrin-2 Human Recombinant
RCP0343

Product Overview

Name	CASQ2 Human
Description	
Calsequestrin-2 Human Recombinant	
Accession (Primary)	O14958
Synonyms	
PDIB2, CASQ2, Calsequestrin-2, Calsequestrin cardiac muscle isoform, FLJ26321, FLJ93514.	
Introduction	
CASQ2 belongs to the calsequestrin family and is localized to the sarcoplasmic reticulum in cardiac and slow skeletal muscle cells. CASQ2 is a calcium binding protein that stores calcium for muscle function. The discharge of calcium bound to CASQ2 through a calcium release channel activates muscle contraction. CASQ2 binds 40 to 50 moles of calcium. CASQ2 mutations result in stress-induced polymorphic ventricular tachycardia, also called catecholaminergic polymorphic ventricular tachycardia 2 which is known fir its bidirectional ventricular tachycardia that causes cardiac arrest.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered clear colorless solution.	
Formulation	
The CASQ2 solution contains 20mM Tris-HCl pH-8, 0.1M NaCl, 1mM DTT and 20% glycerol.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.	
Purity	
Greater than 95% as determined by SDS-PAGE.	
Amino acid sequence	
MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSM EEG LNFPTYDGKD RVVSLSEKNF KQVLKKYDLL CLYYHEPVSS DKVTQKQFQL KEIVLELVAQ VLEHKAIGFV MVDAKKEAKL AKKLGFDEEG SLYILKGDRT IEFDGEFAAD VLVEFLLDLI EDPVEIISSK LEVQAFERIE DYIKLIGFFK SEDSEYYKAF EEAAEHFQPY IKFFATFDKG	

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VAKKLSLKMN EVDFYEPFMD EPIAIPNKPY TEEELVEFVK EHQRPTLRRL RPEEMFETWE DDLNGIHIVA FAEKSDPDGY EFLEILKQVA RDNTDNPDLS ILWIDPDDFP LLVAYWEKTF KIDLFRPQIG VVNVTDADSV WMEIPDDDDL PTAEELEDWI EDVLSGKINT EDDDEDDDDD DNSDEEDNDD SDDDDDE.

Precautions

CASQ2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O14958)