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CASQ2 Human

Catalog #:PRPS-806

For research use only.

Description:CASQ2 Human Recombinant fused to 37 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 417 amino acids (20-399 a.a.)and having a molecular mass of 48.4 kDa. The CASQ2 is purified by proprietary chromatographic techniques.

Synonyms:PDIB2, CASQ2, Calsequestrin-2, Calsequestrin cardiac muscle isoform, FLJ26321, FLJ93514.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear colorless solution.

Amino Acid Sequence:MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMEEG LNFPTYDGKD RVVSLSEKNF KQVLKKYDLL CLYYHEPVSS DKVTQKQFQL KEIVLELVAQ VLEHKAIGFV MVDAKKEAKL AKKLGFDEEG SLYILKGDRT IEFDGEFAAD VLVEFLLDLI EDPVEIISSK LEVQAFERIE DYIKLIGFFK SEDSEYYKAF EEAAEHFQPY IKFFATFDKG VAKKLSLKMN EV

Purity: Greater than 95% as determined by SDS-PAGE.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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 CASQ2throµgh 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.

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