9051 Mira Mesa Blvd, #910094
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Troponin-C Protein

Cardiac Troponin-C Human
RCP2447

Product Overview

Name	Troponin-C Protein

Description

Cardiac Troponin-C Human

Accession (Primary)	P63316

Synonyms

Troponin C slow skeletal and cardiac muscles, TN-C, TNNC1, TNNC, TNC, CMD1Z.

Introduction

Troponin is a fundamental regulatory protein of striated muscle contraction, and together with tropomyosin, is positioned on the actin filament. Troponin has 3 subunits: TnI- the inhibitor of actomyosin ATPase; TnT- contains the binding site for tropomyosin; and TnC- the protein encoded by the TNNC1 gene. The binding of calcium to TnC stops the inhibitory action of TnI, consequently allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in the TNNC1 gene are linked to cardiomyopathy dilated type 1Z.

Source

Human cardiac tissue

Physical Appearance

Sterile Filtered colorless solution.

Formulation

The protein solution contains 150 mM NaCl, 10 mM sodium phosphate and 0.05% NaN3, (pH 7.0).

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). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95% as determined by SDS-PAGE.

Precautions

Troponin-C Protein is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P63316)

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