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32-13485: Troponin-C Protein

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

Description

Source: Human cardiac tissue
Sterile Filtered colorless solution.
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.
Troponin-C Human produced from Human Cardiac Tissue, having a molecular mass of 18kDa. The Troponin-C is purified using a combination of ion-exchange and affinity chromatography steps.

Product Info

Amount :	5 µg / 20 µg
Purification :	Greater than 95% as determined by SDS-PAGE.
Content :	The protein solution contains 150 mM NaCl, 10 mM sodium phosphate and 0.05% NaN3, (pH 7.0).
Storage condition :	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.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.