9051 Mira Mesa Blvd, #910094
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TNNI3 Human, (1-210)

Cardiac Troponin-I Human Recombinant (1-210 a.a.)
RCP2401

Product Overview

Name	TNNI3 Human, (1-210)

Description

Cardiac Troponin-I Human Recombinant (1-210 a.a.)

Accession (Primary)	P19429

Synonyms

Troponin I cardiac muscle, Cardiac troponin I, TNNI3, TNNC1, CMH7, RCM1, cTnI, CMD2A, MGC116817.

Introduction

Troponin I (TnI), troponin T (TnT) and troponin C (TnC) form the troponin complex of the thin filaments of striated muscle. TnI acts as the inhibitory subunit by blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains 3 genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. The TNNI3 gene encodes the TnI-cardiac protein and isexpressed solely in cardiac muscle tissues. Mutations in the TNNI3 gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless liquid formulation.

Formulation

TNNI3 protein solution (0.25mg/ml) contains 30% glycerol, 20mM Tris-HCl buffer (pH 7.5), 0.1M NaCl, 0.1mMPMSF & 1mM DTT.

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 90.0% as determined by both SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS MADGSSD AAREPRPAPA PIRRRSSNYR AYATEPHAKK KSKISASRKL QLKTLLLQIA KQELEREAEERRGEKGRALS TRCQPLELAG LGFAELQDLC RQLHARVDKV DEERYDIEAK VTKNITEIAD LTQKIFDLRG KFKRPTLRRV RISADAMMQALLGARAKESL DLRAHLKQVK KEDTEKENRE

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VGDWRKNIDA LSGMEGRKKK FES

Precautions

TNNI3 Human, (1-210) is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P19429)