

32-13487: TNNI3 Human, (1-210)

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

Description

Source: Escherichia Coli.

Sterile Filtered colorless liquid formulation.

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 is expressed solely in cardiac muscle tissues. Mutations in the TNNI3 gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).

TNNI3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 233 amino acids (1-210 a.a) and having a molecular mass of 26.4 kDa. TNNI3 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 1 µg / 5 µg

Purification : Greater than 90.0% as determined by both SDS-PAGE.

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

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.

Amino Acid : MGSSHHHHHH SGLVPRGSH MGSMADGSSD AAREPRPAPA PIRRRSSNYR AYATEPHAKK KSKISASRKL QLKTL LLQIA KQELEREAEERRGKGRALS TRCQPLELAG LGFAELQDLC RQLHARVDKV DEERYDIEAK VTKNITEIAD LTQKIFDLRG KFKRPTLRRV RISADAMM QALLGARAKESL DLRAHLKQVK KEDTEKENRE VGDWRKNIDA LSGMEGRKKK FES