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Recombinant Human Cardiac Troponin I (rHuTNI)

CLPRO324
CLPRO324-2
CLPRO324-3
Lot: 1011PTNI31

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

Description: Recombinant Human TNI produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 210 amino acids and having a molecular mass of 24,016 Dalton. The TNI is purified by proprietary chromatographic techniques.

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

Source: *Escherichia Coli*.

Presentation: 10 µg (CLPRO324), 50 µg (CLPRO324-2), or 1 mg (CLPRO324-3), sterile filtered colorless liquid formulation. 3.53 mg/ml solution containing 6M Urea 50 mM Tris pH 8.

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 98.0% as determined by both:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Protein content: Protein quantitation was carried out by using 0.25 – 5.0 mg/ml Bradford assay vs. BSA

Continued...

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Amino Acid Sequence: MADGSSDAAREPRPAPAPIRRRSSNYRAYATEPHAKKKSKISASRKLQLKTLLQ
IAKQELEREAEEERRGEKGRALSTRCQPLELAGLGFAELQDLCRQLHARVDKVDEE
RYDIEAKVTKNITEIADLTQKIFDLRGKFKRPTLRRVRISADAMMQALLGARAKE
SLDLRAHLKQVKKEDTEKENREVGDWKRNIDALSGMEGRKKKFES.

Laboratory Reagent For Research Use Only

BA 09/10/13