

TNNI3

Recombinant Human Cardiac Troponin I Type 3

Catalog No.	CRT134A	Quantity:	10 µg
	CRT134B		50 µg
	CRT134C		1.0 mg

Alternate Names: CMD1FF, CMD2A, CMH7, RCM1, TNNC1, cTnI

Description: 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).
Recombinant Human cardiac troponin-1 is a single, non-glycosylated, polypeptide chain containing 210 amino acids.

Concentration: 3.53 mg/ml

GeneID: 7137

Source: *E. coli*

Molecular Weight: ~24 kDa

Formulation: Sterile filtered liquid in 6 M urea + 50 mM Tris, pH 8.0

Purity: >98% as determined by RP-HPLC and SDS-PAGE analyses

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

Amino Acid Sequence: MADGSSDAAR EPRPAPAPIR RRSSNYRAYA TEPHAKKSK ISASRKLQLK
TLLLQIAKQE LEREAEERRG EKGRALSTRC QPLELAGLGF AELQDLQRQL
HARVDKVDDEE RYDIEAKVTK NITEIADLTQ KIFDLRGKFK RPTLRRVRIS
ADAMMQALLG ARAKESLDLR AHLKQVKKED TEKENREVGD WRKNIDALSG
MEGRKKKFES

Storage & Stability: Store at 2-4°C for up to four weeks. For longer storage it is recommended to add a carrier protein (0.1% HSA or BSA) and store in working aliquots -20°C. **Avoid repeated freeze-thaw cycles.**

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