

## TNNI3

### Recombinant Human Cardiac Troponin I

<b>Catalog No.</b>	CRT134A	<b>Quantity:</b>	10 µg
	CRT134B		50 µg
	CRT134C		1.0 mg

**Alternate Names:** Troponin I cardiac muscle, Cardiac troponin I

**Description:** Troponin I (TnI), troponin T (TnT) and troponin C (TnC) form the troponin complex of the thin filaments of striated muscle. TnI is 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).

**UniProt ID:** P19429

**Source:** *E. coli*

**Molecular Weight:** 24 kDa (210 aa) monomer

**Formulation:** Sterile-filtered 6 M urea, 50 mM Tris-HCl, pH 8.0

**Purity:** > 95% by SDS-PAGE analyses

**Volume:** lot specific

**Amino Acid Sequence:** MADGSSDAAR EPRPAPAPIR RRSSNYRAYA TEPHAKKSK ISASRKLQLK  
 TLLLQIAKQE LERAEERRG EKGRALSTRC QPLELAGLGF AELQDLQRQL  
 HARVDKVDEE RYDIEAKVTK NITEIADLTQ KIFDLRGKFK RPTLRRVRIS  
 ADAMMQALLG ARAKESLDLR AHLKQVKKED TEKENREVDG WRKNIDALSG  
 MEGRKKKFES

**Storage & Stability:** Store at 2-8°C if the entire vial will be used within 1 week. For longer storage it is recommended to add a carrier protein (0.1% HSA or BSA) and store in working aliquots at -20°C to 80°C. **Avoid repeated freeze-thaw cycles.**

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**

