

Recombinant Human Troponin I Type 3 (Cardiac)

Cat. No. TNNI3-220H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNI produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain. The TNI contains 165 amino acids and has a molecular mass of 24,016 Dalton. The TNI is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	Troponin I, cardiac muscle is a protein that in humans is encoded by the TNNI3 gene. Troponin I (TnI) is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle; see also TNNI1. The others are troponin T and troponin C.
Physical Appearance	Sterile Filtered colorless liquid formulation.
Formulation	3.53 mg/ml solution containing 6M Urea 50mM Tris PH 8.
Purity	Greater than 98.0% as determined by both: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Dimers And Aggregates	Less than 1% as determined by silver-stained SDS-PAGE gel analysis.
Endotoxin	Endotoxin is less than 0.1 ng/g of rHuTNC.

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Protein Content	Protein quantitation was carried out by using 0.25 - 5.0 mg/ml Bradford assay vs. BSA.
Stability	Lyophilized rHuTNI although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rHuTNI should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
GENE INFORMATION	
Gene Name	TNNI3 troponin I type 3 (cardiac) [Homo sapiens]
Synonyms	TNNI3; troponin I type 3 (cardiac); CMH7; RCM1; cTnI; CMD2A; TNNC1; MGC116817; TNNI3; troponin I, cardiac; Troponin I, cardiac muscle; Cardiac troponin I; familial hypertrophic cardiomyopathy 7
Gene ID	7137
mRNA Refseq	NM_000363
Protein Refseq	NP_000354
MIM	191044
UniProt ID	P19429
Chromosome Location	19q13.4
Pathway	Hypertrophic cardiomyopathy (HCM); Muscle contraction; Cardiac muscle contraction

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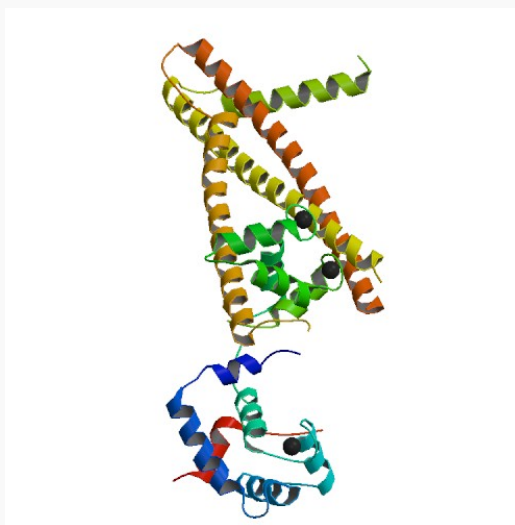
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Function

actin binding; calcium-dependent protein binding; protein domain specific binding; protein kinase binding; troponin C binding; troponin T binding; calcium channel inhibitor activity

PDB rendering based on 1j1d.



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