

Recombinant Human TNNI3

Cat. No. TNNI3-27226TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human single chain cardiac Troponin I C (ScTnI-C-1)
Species	Human
Source	E.coli
Description	Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM).
Form	Liquid
Storage buffer	Preservative: 0.025% Sodium Azide Constituents: 50% Glycerol, 12.5µg/ml Aprotinin, 250mM Sodium chloride, 20mM Tris HCl, 2mM Magnesium chloride, 2mM Calcium chloride
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the troponin I family.

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GENE INFORMATION

Gene Name	TNNI3 troponin I type 3 (cardiac) [Homo sapiens]
Official Symbol	TNNI3
Synonyms	TNNI3; troponin I type 3 (cardiac); troponin I, cardiac; troponin I, cardiac muscle; CMH7; TNNC1;
Gene ID	7137
mRNA Refseq	NM_000363
Protein Refseq	NP_000354
MIM	191044
Uniprot ID	P19429
Chromosome Location	19q13.4
Pathway	Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem;
Function	actin binding; calcium channel inhibitor activity; calcium-dependent protein binding; protein binding; protein domain specific binding;

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