

## Recombinant Human TNNI3

**Cat. No.** TNNI3-31690TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Cardiac Troponin I + T + C Complex. Purified subunits of recombinant Human Troponin I , Troponin T , and Troponin C are recomplexed in vitro under appropriate conditions.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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).
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 50% Glycerol
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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## GENE INFORMATION

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

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