

## Native Human TNNI3 Protein

Cat. No. TNNI3-01H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human Cardiac Troponin C-I-T Complex Protein produced in Human heart tissue.
<b>Species</b>	Human
<b>Source</b>	Human Cardiac
<b>Description</b>	<p>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). Troponin I is useful in making a diagnosis of heart failure, and of ischemic heart disease. An elevated level of troponin is also now used as indicator of acute myocardial injury in patients hospitalized with moderate/severe Coronavirus Disease 2019 (COVID-19). Such elevation has also been associated with higher risk of mortality in cardiovascular disease patients hospitalized due to COVID-19.</p>
<b>Form</b>	Sterile Filtered brown solution.
<b>Molecular Mass</b>	75 kDa
<b>Storage</b>	Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20

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centigrade for longer periods of time.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Avoid multiple freeze-thaw cycles.

**Storage Buffer** 25 mM TRIS buffer, 0.15 M NaCl, 0.09% sodium azide, pH 7.5.

**Shipping** Ice Packs

## GENE INFORMATION

**Gene Name** TNNI3 troponin I3, cardiac type [ Homo sapiens (human) ]

**Official Symbol** TNNI3

**Synonyms** Troponin I cardiac muscle; Cardiac troponin I; TNNI3; TNNC1; CMH7; RCM1; cTnI; CMD2A; MGC116817; Troponin C slow skeletal and cardiac muscles; TN-C; TNNC1; TNNC; TNC; CMD1Z

**Gene ID** 7137

**mRNA Refseq** NM\_000363

**Protein Refseq** NP\_000354

**MIM** 191044

**UniProt ID** P19429

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