

## Recombinant Human TNNI3 Protein

Cat. No. TNNI3-008H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human TNNI3 protein without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	210
<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>	Solution
<b>Molecular Mass</b>	24 kDa

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<b>AA Sequence</b>	MADGSSDAAREPRPAPAPIRRRRSSNYRAYATEPHAKKKSKISASRKLQLKTLTLLQIAK QELEREAEERRGEKGRALSTRCQPLELAGLGFAELQDLRQLHARVDKVDDEERYDI EAKVTKNITEIADLTQKIFDLRGKFKRPTLRRVRISADAMMQALLGARAKESLDLRAH LKQVKKEDTEKENREVGDWRKNIDALSGMEGRKKKFES
<b>Purity</b>	> 98%
<b>Applications</b>	WB; ELISA; FACS; FC
<b>Stability</b>	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
<b>Storage</b>	At -20 centigrade.
<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	Tris (pH 8). Sterile-filtered colorless solution.
<b>Reconstitution</b>	Solution for appropriate storage temperature

## GENE INFORMATION

<b>Gene Name</b>	TNNI3 troponin I type 3 (cardiac) [ Homo sapiens (human) ]
<b>Official Symbol</b>	TNNI3
<b>Synonyms</b>	TNNI3; troponin I type 3 (cardiac); troponin I, cardiac; troponin I, cardiac muscle; CMH7; TNNC1; RCM1; cTnI; CMD2A; CMD1FF; MGC116817;
<b>Gene ID</b>	7137

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<b>mRNA Refseq</b>	NM_000363
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<b>Protein Refseq</b>	NP_000354
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<b>MIM</b>	191044
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<b>UniProt ID</b>	P19429
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