

## Recombinant Human TNNI3 Protein, His-tagged

Cat. No. TNNI3-872H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TNNI3 Protein (Ala2-Ser210) with His tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ala2-Ser210
<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>	Freeze-dried powder

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<b>Molecular Mass</b>	Predicted Molecular Mass: 27.7 kDa; Accurate Molecular Mass: 30 kDa
<b>Purity</b>	> 90%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in PBS or others.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	TNNI3 troponin I3, cardiac type [ Homo sapiens (human) ]
<b>Official Symbol</b>	TNNI3
<b>Synonyms</b>	TNNI3; troponin I3, cardiac type; CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF; troponin I, cardiac muscle; cardiomyopathy, dilated 2A (autosomal recessive); troponin I type 3 (cardiac)
<b>Gene ID</b>	7137
<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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