

## Recombinant Mouse Tnni3 protein, His-tagged

Cat. No. Tnni3-17M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Tnni3 fused with His tag was expressed in E. coli.
<b>Species</b>	Mouse
<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.
<b>Form</b>	Lyophilized from PBS, pH 7.4, 5% trehalose, 0.01% sarcosyl
<b>Molecular Mass</b>	25.8 kDa
<b>Purity</b>	Greater than 95%
<b>Storage</b>	Store at +4 centigrade for up to 1 month, or aliquot and store at -80 centigrade for up to 12 months. Avoid repeat freeze-thaw cycles.

### GENE INFORMATION

<b>Gene Name</b>	Tnni3 troponin I, cardiac 3 [ Mus musculus ]
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<b>Official Symbol</b>	Tnni3
<b>Synonyms</b>	TNNI3; troponin I, cardiac 3; troponin I, cardiac muscle; cardiac troponin I; Tn1; cTnI;
<b>Gene ID</b>	21954
<b>mRNA Refseq</b>	NM_009406
<b>Protein Refseq</b>	NP_033432
<b>MIM</b>	
<b>UniProt ID</b>	P48787
<b>Chromosome Location</b>	7 A1; 7 2.61 cM
<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; Hypertrophic cardiomyopathy (HCM), conserved biosystem; Muscle contraction, organism-specific biosystem;
<b>Function</b>	actin binding; calcium channel inhibitor activity; calcium-dependent protein binding; protein domain specific binding; protein kinase binding; troponin C binding; troponin T binding;

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