

Recombinant Rat Tnni3 protein, His-tagged

Cat. No. Tnni3-179R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Tnni3 fused with His tag was expressed in E. coli.
Species	Rat
Source	E.coli
Description	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.
Form	Lyophilized from PBS, pH 7.4, 5% trehalose, 0.01% sarcosyl
Molecular Mass	25.7 kDa
Purity	Greater than 95%
Storage	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

Gene Name Tnni3 troponin I type 3 (cardiac) [*Rattus norvegicus*]

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Official Symbol	Tnni3
Synonyms	TNNI3; troponin I type 3 (cardiac); troponin I, cardiac muscle; cardiac troponin I; troponin 1, type 3; TnI; cTNI;
Gene ID	29248
mRNA Refseq	NM_017144
Protein Refseq	NP_058840
MIM	
UniProt ID	P23693
Chromosome Location	1q12
Pathway	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;
Function	actin binding; actin binding; calcium channel inhibitor activity; calcium channel inhibitor activity; calcium-dependent protein binding; calcium-dependent protein binding; protein domain specific binding; protein domain specific binding; protein kinase binding; protein kinase binding; troponin C binding; troponin C binding; troponin T binding; troponin T binding;

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