

# Recombinant Human TNNC1

**Cat. No.** TNNC1-27224TH    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human cardiac Troponin C, is a single, non-glycosylated, polypeptide chain, 18 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Troponin is a central regulatory protein of striated muscle contraction, and together with tropomyosin, is located on the actin filament. Troponin consists of 3 subunits: TnI, which is the inhibitor of actomyosin ATPase; TnT, which contains the binding site for tropomyosin; and TnC, the protein encoded by this gene. The binding of calcium to TnC abolishes the inhibitory action of TnI, thus allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in this gene are associated with cardiomyopathy dilated type 1Z.
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: 0.05% Sodium Azide Constituents: 150mM Sodium chloride, 10mM Sodium phosphate, pH 7.0
<b>Storage</b>	Store at +4°C.
<b>Full Length</b>	Full L.

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## GENE INFORMATION

<b>Gene Name</b>	TNNC1 troponin C type 1 (slow) [ Homo sapiens ]
<b>Official Symbol</b>	TNNC1
<b>Synonyms</b>	TNNC1; troponin C type 1 (slow); TNNC, troponin C, slow; troponin C, slow skeletal and cardiac muscles;
<b>Gene ID</b>	7134
<b>mRNA Refseq</b>	NM_003280
<b>Protein Refseq</b>	NP_003271
<b>MIM</b>	191040
<b>Uniprot ID</b>	P63316
<b>Chromosome Location</b>	3p21.1
<b>Pathway</b>	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem;
<b>Function</b>	actin filament binding; calcium ion binding; calcium-dependent protein binding; protein binding; protein homodimerization activity;

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