Recombinant Human TNNC1

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

SPECIFICATION

Product Overview	Recombinant Full Length Human cardiac Troponin C, is a single, non-glycosylated, polypeptide chain, 18 kDa.
Species	Human
Source	E.coli
Description	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.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: 0.05% Sodium AzideConstituents: 150mM Sodium chloride, 10mM Sodium phosphate, pH 7.0
Storage	Store at +4°C.
Full Length	Full L.

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GENE INFORMATION

Gene Name	TNNC1 troponin C type 1 (slow) [Homo sapiens]
Official Symbol	TNNC1
Synonyms	TNNC1; troponin C type 1 (slow); TNNC, troponin C, slow; troponin C, slow skeletal and cardiac muscles;
Gene ID	7134
mRNA Refseq	NM_003280
Protein Refseq	NP_003271
MIM	191040
Uniprot ID	P63316
Chromosome Location	3p21.1
Pathway	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;
Function	actin filament binding; calcium ion binding; calcium-dependent protein binding; protein binding; protein homodimerization activity;

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