

# Recombinant Human TNNC1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TNNC1-6119H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

TNNC1 MS Standard C13 and N15-labeled recombinant protein (NP\_003271) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### 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.

### Molecular Mass

18.4 kDa

### AA Sequence

MDDIYKAAVEQLTEEQKNEFKAAFDIFVLGAEDGCISTKELGKVMRMLGQNPTPEEL  
QEMIDEVDEDEGSGTVDFDEFLLVMMVRCMKDDSKGKSEEELSDLFRMFDKNADGYI  
DLDELKIMLQATGETITEDDIEELMKDGDKNNDGRIDYDEFLEFMKGVETRTRPLEQK  
LISEEDLAANDILDYKDDDDKV

### Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

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<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

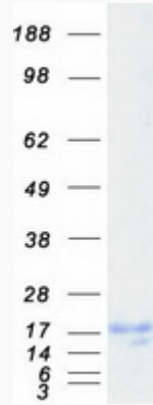
<b>Gene Name</b>	TNNC1 troponin C1, slow skeletal and cardiac type [ Homo sapiens (human) ]
<b>Official Symbol</b>	TNNC1
<b>Synonyms</b>	TNNC1; troponin C type 1 (slow); TNNC, troponin C, slow; troponin C, slow skeletal and cardiac muscles; troponin C1, slow; cardiac troponin C; slow twitch skeletal/cardiac muscle troponin C; TNC; TN-C; TNNC; CMD1Z; CMH13;
<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

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**SDS-PAGE**



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