

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 QEMIDEVDEDESGTVDFDEFVLMMVRCMKDDSKGKSEEELSDLFRMFDPKNADGYI DLDELKIMLQATGETITEDDIEELMKDGDKNNDGRIDYDEFLEFMKGVETRTRPLEQK LISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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

GENE INFORMATION

Gene Name	TNNC1 troponin C1, slow skeletal and cardiac type [Homo sapiens (human)]
Official Symbol	TNNC1
Synonyms	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;
Gene ID	7134
mRNA Refseq	NM_003280
Protein Refseq	NP_003271
MIM	191040
UniProt ID	P63316

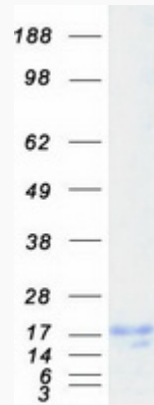
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SDS-PAGE



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