

Recombinant Human TNNC1 Protein

Cat. No. TNNC1-007H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TNNC1 protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	161
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	Solution
Molecular Mass	18 kDa
AA Sequence	MDDIYKAAVEQLTEEQKNEFKAAFDIFVLGAEDGCISTKELGKVMRMLGQNPTPEEL QEMIDEVDEDEGSGTVDFDEFLLVMMVRCMKDDSKGKSEEELSDLFRMFDKNADGYI DLDELKIMLQATGETITEDDIEELMKDGDKNNDGRIDYDEFLEFMKGVE
Purity	> 95%

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Applications	WB; ELISA; FACS; FC
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	4°C
Concentration	1 mg/mL
Storage Buffer	Sodium-phosphate (pH 7). Sterile-filtered colorless solution.
Reconstitution	Solution for appropriate storage temperature

GENE INFORMATION

Gene Name	TNNC1 troponin C1, slow skeletal and cardiac type [Homo sapiens (human)]
Official Symbol	TNNC1
Synonyms	TNNC1; troponin C1, slow skeletal and cardiac type; TNC; TN-C; TNNC; CMD1Z; CMH13; troponin C, slow skeletal and cardiac muscles; cardiac troponin C; slow twitch skeletal/cardiac muscle troponin C; troponin C type 1 (slow)
Gene ID	7134
mRNA Refseq	NM_003280
Protein Refseq	NP_003271
MIM	191040

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