Recombinant Human Troponin C Type 1 (slow), His-tagged

Cat. No. TNNC1-6896H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TNNC1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 20.5 kDa.
Species	Human
Source	E.coli
ProteinLength	1-161aa
Description	TNNC1 is a member of troponins family. Troponin has 3 subunits, Troponin I(Tn-I), Troponin T(Tn-T) and Troponin C(Tn-C). Tn-I subunit inhibits actomyosin ATPase and Tn-T subunit binds tropomyosin and Tn-C, while Tn-C subunit binds calcium and overcomes the inhibitory action of the troponin complex on actin filaments. TNNC1 is dumbbell-shaped and has a hydrophobic pocket that increases the contractile force of muscle fibers.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl.
Molecular Mass	20.5 kDa (181aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MDDIYKAAVE QLTEEQKNEF KAAFDIFVLG AEDGCISTKE LGKVMRMLGQ NPTPEELQEM IDEVDEDGSG TVDFDEFLVM MVRCMKDDSK GKSEEELSDL FRMFDKNADG YIDLDELKIM LQATGETITE

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	DDIEELMKDG DKNNDGRIDY DEFLEFMKGV E
Purity	>95% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4℃ short term (1-2 weeks). For long term storage, aliquot and store at -20℃ or -70℃. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)

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; 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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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; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem;
Function	actin filament binding; calcium ion binding; calcium-dependent protein binding; protein binding; protein homodimerization activity; troponin I binding; troponin I binding; troponin T binding;

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