

Recombinant Human Troponin C Type 1 (Slow)

Cat. No. TNNC1-138H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human troponin C type 1 (slow) produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain. The TNC has a molecular mass of 18,020 Dalton. The TNC is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	Troponin Complex is a heteromeric protein playing an important role in the regulation of skeletal and cardiac muscle contraction. It consists of three subunits, Troponin I, Troponin T and Troponin C. Each subunit is responsible for part of Troponin Complex function. E.g. Troponin I inhibits ATP-ase activity of acto-myosin. Troponin T and Troponin I are presented in cardiac muscles in different forms than in skeletal muscles. Purified subunits of rcTnI, rcTnC and rcTnT recomplexed in vitro under appropriate conditions.
Physical Appearance	Sterile Filtered colourless liquid formulation.
Formulation	Each mg/ml of protein (0.5mg/ml) contains 50% glycerol.
Purity	Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Anion-exchange FPLC. (c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained.
Dimers And Aggregates	Less than 1% as determined by silver stained SDS-PAGE gel analysis.

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Endotoxin	Less than 0.1 ng/g (IEU/g) of rHuTNC.
Applications	Immunoassays and western blot.
Stability	RHuTNC although stable at 10°C for 7 days, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	TNNC1 troponin C type 1 (slow) [Homo sapiens]
Synonyms	TNNC1; troponin C type 1 (slow); TNC; TNNC; CMD1Z; troponin C, slow; Troponin C, slow skeletal and cardiac muscles; TN-C; cardiac troponin C; troponin C1, slow; slow twitch skeletal/cardiac muscle troponin C
Gene ID	7134
mRNA Refseq	NM_003280
Protein Refseq	NP_003271
MIM	191040
UniProt ID	P63316
Chromosome Location	3p21.3-p14.3
Pathway	Calcium signaling pathway; Cardiac muscle contraction; Hypertrophic cardiomyopathy (HCM); Muscle contraction

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Function

actin filament binding; calcium ion binding; calcium- dependent protein binding; protein homodimerization activity; troponin I binding; troponin T binding

PDB rendering based on 1aj4.

