

Recombinant Human TNNC1 protein, His & GST-tagged

Cat. No. TNNC1-7940H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNNC1 aa. (Met1~Glu161 (Accession # P63316)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Glu161
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	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 48.4kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 4.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH ₂ O.

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

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mRNA Refseq	NM_003280.2
Protein Refseq	NP_003271.1
UniProt ID	P63316

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