

Recombinant Human TNNT2 protein, His & GST-tagged

Cat. No. TNNT2-7950H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNNT2 aa. (Ser2~Ile100 (Accession # P45379)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ser2~Ile100
Description	The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 43.5kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 4.5.
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 PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	TNNT2 troponin T2, cardiac type [Homo sapiens (human)]
Official Symbol	TNNT2
Synonyms	TNNT2; troponin T2, cardiac type; CMH2; RCM3; TnTC; cTnT; CMD1D; CMPD2; LVNC6; troponin T, cardiac muscle; cardiomyopathy, dilated 1D (autosomal dominant); cardiomyopathy, hypertrophic 2; troponin T type 2 (cardiac); truncated cardiac troponin T
Gene ID	7139

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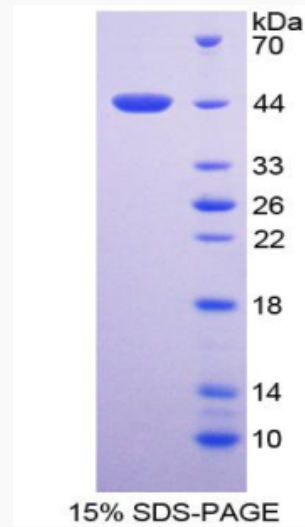
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mRNA Refseq [NM_000364.3](#)

Protein Refseq [NP_000355.2](#)

UniProt ID [P45379](#)

SDS-PAGE



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