

Recombinant Human TNNT2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TNNT2-4969H Lot. No. (See product label)

SPECIFICATION

Product Overview

TNNT2 MS Standard C13 and N15-labeled recombinant protein (NP_001001430) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

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.

Molecular Mass

34.4 kDa

AA Sequence

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MSDIEEVVEEYEEEEQEEAAVEEQEEAAEEDAEAEAETEETRAEEDEEEEEAKEAE
DGPMEESKPKPRSFMPNLVPPKIPDGERVDFDDIHRKRMEKDLNELQALIEAHFENR
KKEEEEELVSLKDRIERRRAERAEQQRIRNEREKERQNRLAEERARREEEENRRKAE
DEARKKKALSNNMHFGGYIQKQAQTERKSGKRQTEREKKKKILAERRKVLAIHDLNE
DQLREKAKELWQSIYNLEAEKFDLQEKFQKQKYEINVLRNRINDNQKVSCTRGRKAKV
TGRWKTRTRPLEQKLISEEDLAANDILDYKDDDDKV
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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	TNNT2 troponin T2, cardiac type [Homo sapiens (human)]
Official Symbol	TNNT2
Synonyms	TNNT2; troponin T type 2 (cardiac); cardiomyopathy, hypertrophic 2, CMH2, troponin T2, cardiac; troponin T, cardiac muscle; troponin T2, cardiac; cardiac muscle troponin T; cardiomyopathy, hypertrophic 2; cardiomyopathy, dilated 1D (autosomal dominant); CMH2; RCM3; TnTC; cTnT; CMPD2; LVNC6; MGC3889;
Gene ID	7139
mRNA Refseq	NM_001001430
Protein Refseq	NP_001001430
MIM	191045
UniProt ID	P45379

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