

Product datasheet for PH301218

Cardiac Troponin T (TNNT2) (NM_001001431) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TNNT2 MS Standard C13 and N15-labeled recombinant protein (NP_001001431)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201218
Predicted MW:	34.3 kDa
Protein Sequence:	>RC201218 protein sequence Red=Cloning site Green=Tags(s)

MSDIEEVVEEYEEEEQEEAAVEEQEEAAEEDAEAEAEETEETRAEEDEEEEEAKEAEDGPMEE SKPKPRSF
MPNLVPPKIPDGERVDFDDIHRKRMEKDLNELQALIEAHFENRKKEEEELVSLKDRIERRRAERAEQQRI
RNEREKERQNRLAEERARREEEENRRKAEDARKKALSMMHFGGYIQKTERKSGKRQTEREKKKKILA
ERRKVLAIIDLHNLQDLREKAKELWQSIYNLEAEKFDLQEKFKQKQYEINVLRRINDNQKVS KTRGKAKV
TGRWK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001001431</u>
RefSeq Size:	1165
RefSeq ORF:	855
Synonyms:	CMD1D; CMH2; CMPD2; cTnT; LVNC6; RCM3; TnTC
Locus ID:	7139



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UniProt ID: [P45379](#)

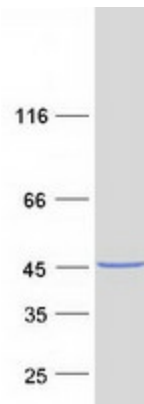
Cytogenetics: 1q32.1

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

Product images:



Coomassie blue staining of purified TNNT2 protein (Cat# [TP301218]). The protein was produced from HEK293T cells transfected with TNNT2 cDNA clone (Cat# [RC201218]) using MegaTran 2.0 (Cat# [TT210002]).