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Product datasheet for PH321318

Troponin T1 (TNNT1) (NM_003283) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TNNT1 MS Standard C13 and N15-labeled recombinant protein (NP_003274)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221318
Predicted MW:	32.8 kDa
Protein Sequence:	>RC221318 representing NM_003283 Red=Cloning site Green=Tags(s) MSDTEEQEYEEEQPEEEAAEEEEEAPEEPEPVAEPEEERPKPSRPVVPPLIPPKIPEGERVDFDDIHRKR MEKDLLELQTLIDVHFEQRKKEEEELVALKERIERRRSERAEQQRFRTEKERERQAKLAEEKMRKEEEEA KKRAEDDAKKKKVLSNMGAHFGGYLVKAEQKRGKRQTGREMKVRILSERKKPLDIDYMGEEQLRARSAWL PPSQPSCPAREKAQELSDWIHQLESEKFDLMAKLKQQKYEINVLYNRISHAQKFRKGAGKGRVGGRWK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_003274
RefSeq Size:	980
RefSeq ORF:	834
Synonyms:	ANM; NEM5; STNT; TNT; TNTS
Locus ID:	7138
UniProt ID:	P13805

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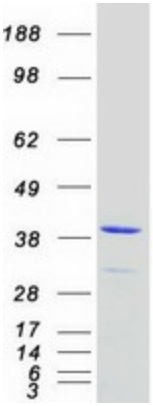
Cytogenetics: 19q13.42

Summary: This gene encodes a protein that is a subunit of troponin, which is a regulatory complex located on the thin filament of the sarcomere. This complex regulates striated muscle contraction in response to fluctuations in intracellular calcium concentration. This complex is composed of three subunits: troponin C, which binds calcium, troponin T, which binds tropomyosin, and troponin I, which is an inhibitory subunit. This protein is the slow skeletal troponin T subunit. Mutations in this gene cause nemaline myopathy type 5, also known as Amish nemaline myopathy, a neuromuscular disorder characterized by muscle weakness and rod-shaped, or nemaline, inclusions in skeletal muscle fibers which affects infants, resulting in death due to respiratory insufficiency, usually in the second year. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified TNNT1 protein (Cat# [TP321318]). The protein was produced from HEK293T cells transfected with TNNT1 cDNA clone (Cat# [RC221318]) using MegaTran 2.0 (Cat# [TT210002]).