

Recombinant Full Length Human TNNT1 Protein, C-Flag-tagged

Cat. No. TNNT1-1915HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TNNT1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	32.8 kDa
AA Sequence	MSDTEEQEYEEEQPEEEAAEEEEEAPEEPEPVAEPEEEERPKPSRPVVPPLIPPKIPE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GERVDFDDIHRKR MEKDLLELQTLIDVHFEQRKKEEEEELVALKERIERRRSERAEQQ
 RFRTEKERERQAKLAEEKMRKEEEEA KKRAEDDAKKKKVLSNMGAHFGGYLVKAE
 QKRGKRQTGREMKVRILSERKKPLDIDYMGEEQLRARS AWL PPSQPSPCPAREKAQ
 ELSDWIHQLESEKFDLMAKLKQQKYEINVLYNRISHAQKFRKGAGKGRVGGRWK T
 RTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

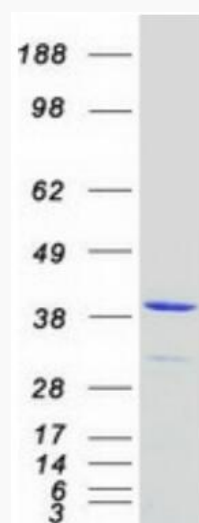
Gene Name	TNNT1 troponin T1, slow skeletal type [Homo sapiens (human)]
Official Symbol	TNNT1
Synonyms	ANM; TNT; NEM5; STNT; TNTS
Gene ID	7138

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mRNA Refseq	NM_003283.6
Protein Refseq	NP_003274.3
MIM	191041
UniProt ID	P13805



Coomassie blue staining of purified TNNT1 protein.