

## Product datasheet for PH303127

### TNNI1 (NM\_003281) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	TNNI1 MS Standard C13 and N15-labeled recombinant protein (NP_003272)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203127
Predicted MW:	21.7 kDa
Protein Sequence:	>RC203127 protein sequence Red=Cloning site Green=Tags(s)  MPEVERKPKITASRKLKLLKSLMLAKAKECWEQEHEEREAEKVRYLAERIPTLQTRGLSLSALQDLCRELH AKVEVVDDEERYDIEAKCLHNTREIKDLKLVMDLRGKFKRPPLRRVRSADAMLRALLGSKHKVSMDLRA NLKSVKKEDTEKERPVEVGDWRKNVEAMSGMEGRKKMFDAAKSPTSQ  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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_003272</a>
RefSeq Size:	6162
RefSeq ORF:	561
Synonyms:	SSTNI; TNN1
Locus ID:	7135
UniProt ID:	<a href="#">P19237</a>

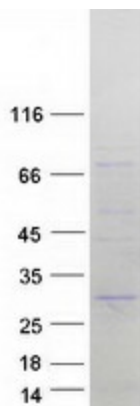


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Cytogenetics: 1q32.1

**Summary:** Troponin proteins associate with tropomyosin and regulate the calcium sensitivity of the myofibril contractile apparatus of striated muscles. Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. The TnI-fast and TnI-slow genes are expressed in fast-twitch and slow-twitch skeletal muscle fibers, respectively, while the TnI-cardiac gene is expressed exclusively in cardiac muscle tissue. This gene encodes the Troponin-I-skeletal-slow-twitch protein. This gene is expressed in cardiac and skeletal muscle during early development but is restricted to slow-twitch skeletal muscle fibers in adults. The encoded protein prevents muscle contraction by inhibiting calcium-mediated conformational changes in actin-myosin complexes. [provided by RefSeq, Jul 2008]

### Product images:



Coomassie blue staining of purified TNNI1 protein (Cat# [TP303127]). The protein was produced from HEK293T cells transfected with TNNI1 cDNA clone (Cat# [RC203127]) using MegaTran 2.0 (Cat# [TT210002]).