

Recombinant Full Length Human TNNI1 Protein, C-Flag-tagged

Cat. No. TNNI1-1679HFL **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|--|
| Product Overview | Recombinant Full Length Human TNNI1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| Species | Human |
| Source | Mammalian Cells |
| Description | <p>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.</p> |
| Form | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| Molecular Mass | 21.5 kDa |

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| | |
|----------------------|--|
| AA Sequence | MPEVERKPKITASRKLKLLKSLMLAKAKECWEQEHEEREAEKVRYLAERITLQTRGL SLSALQDLCRELH AKVEVVDEERYDIEAKCLHNTREIKDLKLVMDLRGKFKRPPLR RVRVSADAMLRALLGSKHKVSMDLRA NLKSVKKEDTEKERPVVEVDWRKNVEAMSGMEGRKKMFDAAKSPTSQTRTRPLE QKLISEEDLAANDILDYKDDDDKV |
| 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. |
| Full Length | Full L. |

GENE INFORMATION

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|------------------------|--|
| Gene Name | TNNI1 troponin I1, slow skeletal type [Homo sapiens (human)] |
| Official Symbol | TNNI1 |
| Synonyms | TNN1; SSTNI |
| Gene ID | 7135 |
| mRNA Refseq | NM_003281.4 |

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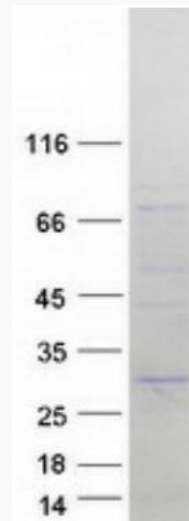
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Protein Refseq NP_003272.3

MIM 191042

UniProt ID P19237



Coomassie blue staining of purified TNNI1 protein.

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