

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

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

SPECIFICATION

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	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	21.5 kDa

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AA Sequence	MPEVERKPKITASRKLKSLMLAKAKECWEQEHEEREAEKVRYLAERITLQTRGL SLSALQDLCRELH AKVEVVDEERYDIEAKCLHNTREIKDLKLVMDLRGKFKRPPLR RVRVSADAMLRALLGSKHKVSMDLRA NLKSVKKEDTEKERPVEVGDWWRKNVEAMSGMEGRKKMFDAAKSPTSQTRTRPLE 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

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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Protein Refseq	NP_003272.3
MIM	191042
UniProt ID	P19237

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