

Recombinant Human TNNI1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TNNI1-5511H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TNNI1 MS Standard C13 and N15-labeled recombinant protein (NP_003272) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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>
Molecular Mass	21.7 kDa

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AA Sequence	MPEVERKPKITASRKLLLSMLAKAKECWEQEHEEREAEKVRYLAERITLQTRGL SLSALQDLCRELHAKVEVVDEERYDIEAKCLHNTREIKDLKLVMDLRGKFKRPPLR RVRVSADAMLRALLGSKHKVSMDLRANLKS VKKEDTEKERPVEVGDW RKNVEAMS GMEGRKKMFDAAKSPTSQTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	TNNI1 troponin I1, slow skeletal type [Homo sapiens (human)]
Official Symbol	TNNI1
Synonyms	TNNI1; troponin I type 1 (skeletal, slow); troponin I, skeletal, slow; troponin I, slow skeletal muscle; troponin I, slow-twitch isoform; TNN1; SSTNI; DKFZp451O223;
Gene ID	7135
mRNA Refseq	NM_003281
Protein Refseq	NP_003272

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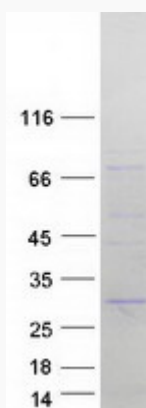
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MIM 191042

UniProt ID P19237

SDS-PAGE



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