

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

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.

Molecular Mass

21.7 kDa

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AA Sequence	MPEVERKPKITASRKLKLLKSLMLAKAKECWEQEHEEREAEKVRYLAERIPTLQTRGL SLSALQDLCRELHAKVEVVDEERYDIEAKCLHNTREIKDLKLVMDLRGKFKRPPLR RVRVSADAMLRALLGSKHKVSMDLRANLKS VKKEDTEKERPVEVGDWRKNVEAMS 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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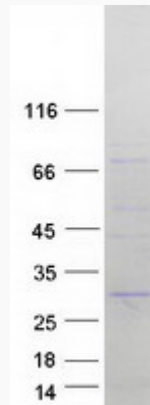
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MIM 191042

UniProt ID P19237

SDS-PAGE



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