

Recombinant Human TNNI1 protein, His-tagged

Cat. No. TNNI1-4836H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNNI1 fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	<p>Troponin1 is a member of the tropomyosin family and regulates the calcium sensitivity of the myofibril contractile apparatus of striated muscles. Troponin1 is part of a complex with troponin T and troponin C in which Troponin1 acts as an inhibitory subunit that blocks actin-myosin interactions and thereby mediates striated muscle relaxation. Troponin1 is expressed in cardiac and skeletal muscle during early development but is restricted to slow-twitch skeletal muscle fibers in adults. The Troponin1 protein prevents muscle contraction by inhibiting calcium-mediated conformational changes in actin-myosin complexes.</p>
Form	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~24 kDa
Purity	>75%
Applications	Western Blot
Stability	1year at - 70 centigrade from date of shipment

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Storage Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

Concentration 0.2 µg/µl

GENE INFORMATION

Gene Name TNNI1 troponin I type 1 (skeletal, slow) [Homo sapiens]

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

MIM 191042

UniProt ID P19237

Chromosome Location 1q31.3

Pathway Muscle contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem;

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Function

actin binding; tropomyosin binding;

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