

Recombinant Human Troponin I Type 1 (Skeletal, Slow)

Cat. No. TNNI1-1282H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Troponin I Type 1 expressed in <i>E. Coli</i> was suggested to be used as markers of acute and chronic skeletal muscle injuries. In skeletal muscles Troponin I is presented by two forms, slow (21.6 kDa) and fast (21.2 kDa) skeletal.
Species	Human
Source	E.coli
Description	TNNI2 is a fast-twitch skeletal muscle protein, belongs to the troponin I gene family, and is part of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, together with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. TNNI2 is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. Other than muscle tissues, TNNI2 is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a coactivator of estrogen receptor-related receptor alpha. Furthermore, TNNI2 suppresses tumor growth in human ovarian carcinoma. Mutations in the TNNI2 gene cause myopathy and distal arthrogyrosis type 2B.
Physical Appearance	Sterile Filtered colourless liquid formulation.
Formulation	Each mg of protein contains 50% glycerol.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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Applications	Immunoassays and western blot.
Stability	FsTnI although stable at 10°C for 7 days, should be stored desiccated below -18°C. Please prevent freeze-thaw cycles.
GENE INFORMATION	
Gene Name	TNNI1 troponin I type 1 (skeletal, slow) [Homo sapiens]
Synonyms	TNNI1; troponin I type 1 (skeletal, slow); TNN1; SSTNI; DKFZp451O223; OTTHUMP00000033877; OTTHUMP00000033910; slow-twitch skeletal troponin I
Gene ID	7135
mRNA Refseq	NM_003281
Protein Refseq	NP_003272
MIM	191042
UniProt ID	P19237
Chromosome Location	1q31.3
Pathway	Muscle contraction
Function	actin binding; tropomyosin binding