

Recombinant Human TNNI2

Cat. No. TNNI2-30870TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length skeletal muscle Troponin I protein (Human).
Species	Human
Source	E.coli
Description	This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. Mouse studies show that this component is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. In addition to muscle tissues, this protein 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 co-activator of estrogen receptor-related receptor alpha. This protein also suppresses tumor growth in human ovarian carcinoma. Mutations in this gene cause myopathy and distal arthrogryposis type 2B. Alternatively spliced transcript variants have been found for this gene.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 500mM Sodium chloride, 20mM Tris HCl, 10mM Beta mercaptoethanol, pH 7.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the troponin I family.
Full Length	Full L.
GENE INFORMATION	
Gene Name	TNNI2 troponin I type 2 (skeletal, fast) [Homo sapiens]
Official Symbol	TNNI2
Synonyms	TNNI2; troponin I type 2 (skeletal, fast); troponin I, skeletal, fast; troponin I, fast skeletal muscle; AMCD2B; DA2B; FSSV; troponin I fast twitch 2; troponin I; fast twitch skeletal muscle isoform;
Gene ID	7136
mRNA Refseq	NM_001145829
Protein Refseq	NP_001139301
MIM	191043
Uniprot ID	P48788
Chromosome Location	11p15.5
Pathway	Muscle contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific

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biosystem;

Function

contributes_to actin binding; protein binding; troponin T binding;

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