

Recombinant Human troponin I type 2 (skeletal, fast), His-tagged

Cat. No. TNNI2-371H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TNNI2, 1-182aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-182 a.a.
Description	Troponin I, fast skeletal muscle, also known as TNNI2, is 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. This protein also suppresses tumor growth in human ovarian carcinoma. Mutations in TNNI2 cause myopathy and distal arthrogyrosis type 2B. Recombinant human TNNI2 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M Urea, 20% glycerol, 0.2M NaCl
Molecular Mass	23.5 kDa (202aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGDEEKRNRA ITARRQHLKS VMLQIAATEL EKEESRREA E KQNYLAEHCP PLHIPGSMSE VQELCKQLHA KIDAAEEEEKY DMEVRVQKTS KELEDMNQKL FDLRGKFKRP PLRRVRMSAD AMLKALLGSK

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HKVCMDLRAN LKQVKKEDTE KERDLRDVGD WRKNIEEKSG MEGRKKMFES ES

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

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; troponin I, fast-twitch isoform; fast-twitch skeletal muscle troponin I; troponin I, fast-twitch skeletal muscle isoform; fsTnI;

Gene ID [7136](#)

mRNA Refseq [NM_001145829](#)

Protein Refseq [NP_001139301](#)

MIM [191043](#)

UniProt ID [P48788](#)

Chromosome Location 11p15.5

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Pathway

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

Function

contributes_to actin binding; protein binding; troponin T binding;

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