

Recombinant Human TNNI2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TNNI2-3184H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TNNI2 MS Standard C13 and N15-labeled recombinant protein (NP_001139301) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	<p>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.</p>
Molecular Mass	21.3 kDa
AA Sequence	MGDEEKRNRAITARRQHLKSVMLQIAATELEKEESRREAQNYLAEHCPPLHIPGS

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MSEVQELCKQLHAKIDAAEEEEKYDMEVRVQKTSKELEDMNQKLFDLRGKFKRPPLR
 RVRMSADAMLKALLGSKHKVCMDLRANLKQVKKEDTEKERDLRDVGDWRKNIEEK
 SGMEGRKKMFESESTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 TNNI2 troponin I2, fast skeletal type [Homo sapiens (human)]

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

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MIM	191043
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UniProt ID	P48788
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