

Recombinant Human Troponin C Type 2 (fast)

Cat. No. TNNC2-6924H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TNNC2 was expressed in E. coli and purified by using conventional chromatography. MW: 18.1 kDa.
Species	Human
Source	E.coli
ProteinLength	1-160aa
Description	TNNC2 is the central regulatory protein of striated muscle contraction, and modulates the Ca ²⁺ -activation characteristics of muscle fibers. Troponin has 3 subunits, Troponin I, Troponin T and Troponin C. Tn-I subunit inhibits actomyosin ATPase and Tn-T subunit binds tropomyosin and Tn-C, while Tn-C subunit binds calcium and overcomes the inhibitory action of the troponin complex on actin filaments.
Form	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 100mM NaCl, 10% glycerol.
Molecular Mass	18.1 kDa (160aa), confirmed by MALDI-TOF.
AA Sequence	MTDQQAEARS YLSEEMIAEF KAAFDMFDAD GGGDISVKEL GTVMRMLGQT PTKEELDAII EEVDEDGSGT IDFEEFLVMM VRQMKEDAKG KSEEELAECE RIFDRNADGY IDPEELAEIF RASGEHVTDE EIESLMKDGD KNNDGRIDFD EFLKMMEGVQ

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Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	TNNC2 troponin C type 2 (fast) [Homo sapiens]
Official Symbol	TNNC2
Synonyms	TNNC2; troponin C type 2 (fast); troponin C2, fast; troponin C, skeletal muscle;
Gene ID	7125
mRNA Refseq	NM_003279
Protein Refseq	NP_003270
MIM	191039
UniProt ID	P02585
Chromosome Location	20q12-q13.11
Pathway	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Muscle contraction, organism-specific biosystem; Striated

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

Function

contributes_to actin binding; calcium ion binding;

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