

Troponin C 1-160aa, Human, Recombinant, E.coli

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3th Edition

Synonyms:Troponin C, skeletal muscle, TNNC2, Troponin C, skeletal muscle TNNC1, Cardiac troponin C, TNNC, Troponin C1 slow, Fast skeletal muscle troponin C, Skeletal troponin C, Troponin C type 1 (slow)

Description:Troponin C, skeletal muscle, also known as TNNC2, is the central regulatory protein of striated muscle contraction, and modulates the Ca²⁺-activation characteristics of muscle fibers. Troponin has 3 subunits, Troponin I(Tn-I), Troponin T(Tn-T) and Troponin C(Tn-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. Mutations in all components of this complex have been associated with skeletal muscle disease. Recombinant human Troponin C was expressed in E.coli and purified by using conventional chromatography.

Form:Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 100mM NaCl, 10% glycerol.

Molecular Weight:18.1 kDa (160aa), confirmed by MALDI-TOF.

Sequences:

MTDQQAEARSYLSEEMIAEFKAAFDMFDADGGGDISVKELGTVMRMLGQTPTKEELDAIIIEVDEDGSGTIDFEEFL
VMMVRQMKEDAKGKSEEELAECFRIFDRNADGYIDPEELAEIFRASGEHVTDDEEIESLMKDGDKNNDGRIDFDEFL
KMMEGVQ

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.