

Product information



Troponin C 1-160aa

Human, Recombinant, *E.coli*

Cat. No. IBATGP0332

Full name: Troponin C, skeletal muscle

NCBI Accession No.: NP_003270

Synonyms: TNNC2

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.

<p>Form: Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 100mM NaCl, 10% glycerol</p> <p>Molecular Weight: 18.1 kDa (160aa)</p> <p>Purity: > 95% by SDS - PAGE</p> <p>Concentration: 1 mg/ml (determined by Bradford assay)</p>	<p>(kDa) 57 40 28 18 13.5</p> <p>15% SDS-PAGE (3ug)</p>
<p>Sequences of amino acids:</p> <p>MTDQQAEARS YLSEEMIAEF KAAFDMFDAD GGGDISVKEL GTVMRLGQT PTKEELDAII EEVDEDGSGT IDFEFLVMM VRQMKEDAKG KSEEEAECF RIFDRNADGY IDPEELAEIF RASGEHVTDE EIESLMKDGK KNNDGRIDFD EFLKMMEGVQ</p>	

General references:

Prentice H., *et al.* (1994). *J Mol Cell Cardiol.* **26**(10):1393-401.

Gahlmann R., *et al.* (1988). *J Mol Biol.* **201**(2):379-91.

Li Y., *et al.* (2008). *Hereditas.* **145**(6):274-82.

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

Product information



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.

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