

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-1), 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.

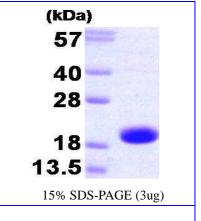
Form: Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 1mM DTT,

100mM NaCl, 10% glycerol

Molecular Weight: 18.1 kDa (160aa)

Purity: > 95% by SDS - PAGE

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



Sequences of amino acids:

MTDQQAEARS YLSEEMIAEF KAAFDMFDAD GGGDISVKEL GTVMRMLGQT PTKEELDAII EEVDEDGSGT IDFEEFLVMM VRQMKEDAKG KSEEELAECF RIFDRNADGY IDPEELAEIF RASGEHVTDE EIESLMKDGD KNNDGRIDFD EFLKMMEGVQ

General references:

Prentice H., et al. (1994). J Mol Cell Cardial. 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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