Recombinant human Troponin C2/TNNC2 protein

Catalog Number: ATGP0332

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-160aa

UniProt No.
P02585

NCBI Accession No.
NP_003270.1

Alternative Names
Troponin C2, Troponin C1 slow, Troponin C type 2 (fast), Troponin C type 1 (slow), Troponin C skeletal muscle, Troponin C, TNNC2, TNNC, Slow skeletal and cardiac muscles, Skeletal troponin C, Skeletal muscle TNNC1, Fast skeletal type, Fast skeletal muscle troponin C, FAP85, CFAP85, Cardiac troponin C

PRODUCT SPECIFICATION

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

Concentration
1mg/ml (determined by Bradford assay)

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

Purity
> 95% by SDS-PAGE

Tag
Non-Tagged

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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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.

Amino acid Sequence

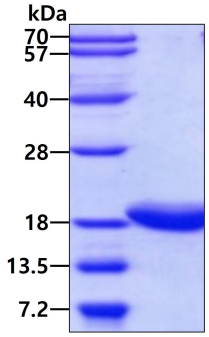
MTDQQAEARS YLSEEMIAEF KAAFDMFDAD GGGDISVKEL GTVMRMLGQT PTKEELDAII EEVDEDGSGT IDFEEFLVMM VRQMKEDAKG KSEEELAECF RIFDRNADGY IDPEELAEIF RASGEHVTDE EIESLMKDGD KNNDGRIDFD EFLKMMEGVQ

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.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.