

TNNC1, 1-161aa, Human, His tag, E.coli

Cat.NO.: TP04269

3th Edition

Synonyms:Troponin C type 1, CMD1Z, CMH13, TN-C, TNC, TNNC

Description:Troponin C type 1, also known as TNNC1, is a member of troponins family. 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. TNNC1 is dumbbell-shaped and has a hydrophobic pocket that increases the contractile force of muscle fibers. Recombinant human TNNC1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Molecular Weight:20.5 kDa (181aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMDDIYKAAVEQLTEEQKNEFKAAFDIFVLGAEDGCISTKELGKVMRMLGQNPTPE
ELQEMIDEVDEDGSGTVDFDEFVMMVRCMKDDSKGKSEEEELSDLFRMFDKNADGYIDLDELKIMLQATGETITED
DIEELMKDGDKNNDGRIDYDEFLEFMKGVE

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.