

Product datasheet for **TP307014M**

Troponin C1 (TNNC1) (NM_003280) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human troponin C type 1 (slow) (TNNC1), 100 µg

Species: Human

Expression Host: HEK293T

**Expression cDNA Clone
or AA Sequence:** >RC207014 protein sequence
Red=Cloning site **Green**=Tags(s)

MDDIYKAAVEQLTEEQKNEFKAAFDFVLGAEDGCISTKELGKVMRMLGQNPTPEELQEMIDEVDEDGSG
TVDFDFLVMVRCMKDDSKGKSEEELSDLFRMFDKNADGYIDLDELKIMLQATGETITEDDIEELMKDG
DKNNDGRIDYDEFLEFMKGVE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 18.2 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_003271](#)

Locus ID: 7134

UniProt ID: [P63316](#), [Q6FH91](#)

RefSeq Size: 705



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Cytogenetics: 3p21.1

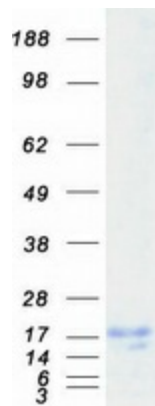
RefSeq ORF: 483

Synonyms: CMD1Z; CMH13; TN-C; TNC; TNNC

Summary: Troponin is a central regulatory protein of striated muscle contraction, and together with tropomyosin, is located on the actin filament. Troponin consists of 3 subunits: TnI, which is the inhibitor of actomyosin ATPase; TnT, which contains the binding site for tropomyosin; and TnC, the protein encoded by this gene. The binding of calcium to TnC abolishes the inhibitory action of TnI, thus allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in this gene are associated with cardiomyopathy dilated type 1Z. [provided by RefSeq, Oct 2008]

Protein Pathways: Calcium signaling pathway, Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

Product images:



Coomassie blue staining of purified TNNC1 protein (Cat# [TP307014]). The protein was produced from HEK293T cells transfected with TNNC1 cDNA clone (Cat# [RC207014]) using MegaTran 2.0 (Cat# [TT210002]).