

Product datasheet for TP307014L

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), 1 mg
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

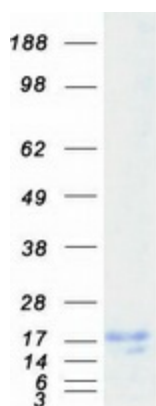
RefSeq ORF: 483

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]).