

TNNC1 recombinant protein

Recombinant Human Troponin C, slow skeletal and cardiac muscles (TNNC1) Protein

CATALOG #
AAA13293

HOST
E. Coli AA 1-161

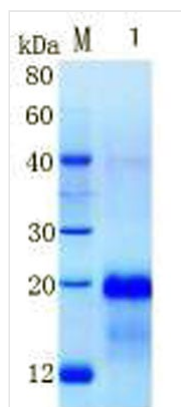
PRODUCT SYNONYMS

TNNC1; Recombinant Human Troponin C; slow skeletal and cardiac muscles (TNNC1) Protein; TNC; TroponinC; Cardiac; Troponin C Type 1; Slow.; TNNC1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E. Coli AA 1-161
Purity/Purification	> 90% as determined by SDS-PAGE
Form/Format	PBS (58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, pH 7.4) added with 15% glycerol. The elution buffer contained 300 mM imidazole
Concentration	0.8 mg/ml (varies by lot)
Sequence	MDDIYKAAVE QLTEEQKNEF KAAFDIFVLG AEDGCISTKE LGKVMRMLGQ NPTPEELQEM IDEVDEDGSG TVDFDEFLVM MVRCMKDDSK GKSEEELSDL FRMFDKNADG YIDLDELKIM LQATGETITE DDIEELMKDG DKNNDGRIDY DEFLEFMKGV E
Sequence Length	1-161
Protein Residues	With N-Terminal 6*His-tag.
Source	Human
Usage	Centrifuge the standard vial at 6000-10000rpm for 30s
Preparation and Storage	Store it under sterile conditions at -20°C upon receiving. Recommended to aliquot the protein into smaller quantities for optimal storage. The recombinant protein is stable for up to 6-12 months from date of receipt at -80°C. Avoid repeated freeze-thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for TNNC1 recombinant protein	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 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 at ATP, and the generation of tension. Mutations in this gene are associated with cardiomyopathy dilated type 1Z. using a human/rodent monochromosomal mapping panel, Song et al. (1996) mapped a human symbolized TNNC1 to chromosome 3 by PCR. Chromosome 3 somatic cell hybrids with various rearrangements were used for finer mapping to 3p21.3-p14.3.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507615
NCBI GeneID	7134
NCBI Accession #	NP_003271.1
NCBI GenBank Nucleotide #	NM_003280.2
UniProt Accession #	P63316; O14800; P02590; P04463
Molecular Weight	Predicted MW: 22 kDa Observed MW: 22 kDa
NCBI Official Full Name	troponin C, slow skeletal and cardiac muscles
NCBI Official Synonym Full Names	troponin C1, slow skeletal and cardiac type
NCBI Official Symbol	TNNC1
NCBI Official Synonym Symbols	TNC; TN-C; TNNC; CMD1Z; CMH13
NCBI Protein Information	troponin C, slow skeletal and cardiac muscles
UniProt Protein Name	Troponin C, slow skeletal and cardiac muscles
UniProt Gene Name	TNNC1
UniProt Synonym Gene Names	TNNC; TN-C
UniProt Entry Name	TNNC1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.