

Troponin T-Cardiac

Cat. No. CDA028 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Source	Human Heart
Description	Troponin is a complex of three regulatory proteins that is integral to muscle contraction in skeletal and cardiac muscle, but not smooth muscle. Troponin is attached to the protein tropomyosin and lies within the groove between actin filaments in muscle tissue. Troponin T is a part of the troponin complex. It binds to tropomyosin, interlocking them to form a troponin-tropomyosin complex. Troponin T binds to tropomyosin and helps position it on actin . And in a less complicated light, Troponin T modulates contraction of striated muscle.
Format	Purified, Tris buffer, pH 7.5 (5mM EDTA, 15mM mercaptoethanol, 20mM Tris). Solubility is limited at neutral pH and physiological salt concentration.
Purification	>90% pure (SDS-PAGE). Immunological activity confirmed by reaction with monoclonal antibody that is specific for the troponin I cardiac isoform in immunoblotting.
Concentration	2.5mg/ml (Roche ECLIA)
Buffer	Tris buffer, pH 7.5(5mM EDTA, 15mM mercaptoethanol, 20mM Tris)
Applications	Suitable for use as a standard in immunoassay, immunogen for antisera production, tracer for iodination. Each laboratory should determine an optimum working titer for

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use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

Storage

Short-term (up to 2 months) store at < -20°C. Long term (>2 months) store at <-40°C. Avoid multiple freeze/thaw cycle.

Warnings

A blood sample from the tissue donor tested negative for HIV 1, HIV 2, HCV antibodies and HBsAg and Syphilis. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.

GENE INFORMATION

Gene Name

TNNT2

Synonyms

troponin T type 2 (cardiac); CMH2; TnTC; cTnT; CMPD2; MGC3889; troponin T2, cardiac", cardiomyopathy, hypertrophic 2; TNNT2_HUMAN; CMD1D; OTTHUMP00000033864; OTTHUMP00000033867; Cardiac muscle troponin T; Troponin T, cardiac muscle; Cardiac muscle troponin T; cardiomyopathy, dilated 1D (autosomal dominant); troponin T type 2 (cardiac); troponin T, cardiac muscle; troponin T2, cardiac.

Gene ID

7139

mRNA Refseq

NM_000364

Protein Refseq

NP_000355

MIM

191045

UniProt ID

P45379

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Chromosome Location	1q32
Function	actin binding; tropomyosin binding; troponin C binding; troponin I binding.

PDBrendering based on 1j1d. Available structures:1j1d,1j1e

