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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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℃. Long term (>2 months) store at <-40℃. Avoid multiple freeze/thaw cycle.
Warnings	A blood sample form 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	

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