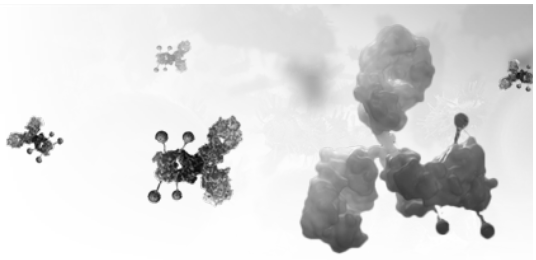

Human TNNI3 peptide (DAG-P1337)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM). [provided by RefSeq, Jul 2008]
Conjugate	Unconjugated
Sequence Similarities	Belongs to the troponin I family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	TNNI3 troponin I type 3 (cardiac) [Homo sapiens (human)]
Official Symbol	TNNI3
Synonyms	TNNI3; troponin I type 3 (cardiac); CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF; troponin I, cardiac muscle; cardiomyopathy, dilated 2A (autosomal recessive);
Entrez Gene ID	7137
mRNA Refseq	NM_000363.4

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

Protein Refseq	NP_000354.4
UniProt ID	P19429
Chromosome Location	19q13.4
Pathway	Adrenergic signaling in cardiomyocytes, organism-specific biosystem; Adrenergic signaling in cardiomyocytes, conserved biosystem; Cardiac Progenitor Differentiation, organism-specific biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), co
Function	actin binding; calcium channel inhibitor activity; calcium-dependent protein binding; metal ion binding; protein binding; protein domain specific binding; protein kinase binding; troponin C binding; troponin T binding;

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221