Recombinant Human TNNI3 protein, His-tagged

Cat. No. TNNI3-18H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNNI3 fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
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).
Form	Supplied as lyophilized form in PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.05% sarcosyl and preservative.
Molecular Mass	24.6kDa
AA Sequence	MGHHHHHHSGSEFMADGSSDAAR EPRPAPAPIR RRSSNYRAYA TEPHAKKKSK ISASRKLQLK TLLLQIAKQE LEREAEERRG EKGRALSTRC QPLELAGLGF AELQDLCRQL HARVDKVDEE RYDIEAKVTK NITEIADLTQ KIFDLRGKFK RPTLRRVRIS ADAMMQALLG ARAKESLDLR AHLKQVKKED TEKENREVGD WRKNIDALSG MEG

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

Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Applications	SDS-PAGE; WB; ELISA; IP.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in sterile PBS, pH7.2 - pH7.4.

GENE INFORMATION

Gene Name	TNNI3 troponin I type 3 (cardiac) [Homo sapiens]
Official Symbol	TNNI3
Synonyms	TNNI3; troponin I type 3 (cardiac); troponin I, cardiac; troponin I, cardiac muscle; CMH7; TNNC1; RCM1; cTnI; CMD2A; CMD1FF; MGC116817;
Gene ID	7137
mRNA Refseq	NM_000363
Protein Refseq	NP_000354
MIM	191044
UniProt ID	P19429
Chromosome Location	19q13.4
Pathway	Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle

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	contraction, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), conserved biosystem; Muscle contraction, organism-specific biosystem;
Function	actin binding; calcium channel inhibitor activity; calcium-dependent protein binding; protein binding; protein domain specific binding; protein kinase binding; troponin C binding; troponin T binding;

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