

Native Human TNNI3 Protein

Cat. No. TNNI3-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Cardiac Troponin C-I-T Complex Protein produced in Human heart tissue.
Species	Human
Source	Human Cardiac
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). Troponin I is useful in making a diagnosis of heart failure, and of ischemic heart disease. An elevated level of troponin is also now used as indicator of acute myocardial injury in patients hospitalized with moderate/severe Coronavirus Disease 2019 (COVID-19). Such elevation has also been associated with higher risk of mortality in cardiovascular disease patients hospitalized due to COVID-19.
Form	Sterile Filtered brown solution.
Molecular Mass	75 kDa
Storage	Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20

 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

centigrade for longer periods of time.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Avoid multiple freeze-thaw cycles.

Storage Buffer 25 mM TRIS buffer, 0.15 M NaCl, 0.09% sodium azide, pH 7.5.

Shipping Ice Packs

GENE INFORMATION

Gene Name TNNI3 troponin I3, cardiac type [Homo sapiens (human)]

Official Symbol TNNI3

Synonyms Troponin I cardiac muscle; Cardiac troponin I; TNNI3; TNNC1; CMH7; RCM1; cTnI; CMD2A; MGC116817; Troponin C slow skeletal and cardiac muscles; TN-C; TNNC1; TNNC; TNC; CMD1Z

Gene ID 7137

mRNA Refseq NM_000363

Protein Refseq NP_000354

MIM 191044

UniProt ID P19429

 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