Recombinant Human TNNI3 Protein, His-Tagged

Cat. No. TNNI3-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNNI3 Protein, His-Tagged was expressed in E.coli cell. Recombinant Human TNNI3 protein produced in E.Coli is a full length protein containing a total of 260 amino acids and fused to a 6 His Tag at C-terminus, migrating as a 27kDa band on SDS-PAGE. Purified by proprietary chromatographic technique.
Species	Human
Source	E.coli
ProteinLength	260 aa
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

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

	COVID-19.
Form	Sterile Filtered clear solution.
Molecular Mass	27kDa
Purity	Protein is >95% pure as determined by 12% PAGE (coomassie staining).
Usage	LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Stability	TNNI3 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Storage Buffer	TNNI3 protein solution in PBS and 25mM arginine.

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.
Gene ID	7137
mRNA Refseq	NM_000363.5
Protein Refseq	NP_000354.4

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

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