

Recombinant Human TNNI3 Protein

Cat. No. TNNI3-0060H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNNI3 Protein without tag was expressed in HEK293.
Species	Human
Source	HEK293
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.
Applications	ELISA, CLIA, CG
Notes	For research use only, not for use in diagnostic procedure.
Storage	Short term (up to 7 days) store at 2–8 centigrade. Long term, store at - 20 centigrade.

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Avoid multiple freeze/thaw cycles.

Storage Buffer Supplied as a 0.2 µm filtered solution of PBS, pH7.4

GENE INFORMATION

Gene Name [TNNI3 troponin I type 3 \(cardiac\) \[Homo sapiens \(human\) \]](#)

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](#)

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