

Recombinant Human TNNI3

Cat. No. TNNI3-79H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Troponin I Type 3, Cardiac was expressed in insect cells.
Species	Human
Source	Insect Cells
Description	Troponin I is part of a heteromeric complex playing an important role in the regulation of skeletal and cardiac muscle contraction. It consists of three subunits, troponin I (TnI), troponin T (TnT) and troponin C (TnC). Each subunit is responsible for part of troponin complex function. TnI inhibits ATPase activity of acto myosin and TnT and TnI are present in cardiac muscles in different forms than in skeletal muscles. Only one tissue specific isoform of TnI is described for cardiac muscle tissue (cTnI) and this is expressed only in myocardium. Equally reactive with free cardiac troponin I (cTnI) and cTnI forming complexes with other troponin components. (In the presence of 5 mM EDTA). Antibodies are not affected by heparin, phosphorylation, oxidation and troponin complex formation. No cross-reaction with skeletal muscle troponin I.
Form	The protein solution is in 0.05M phosphate buffer containing 0.15M NaCl and 0.09% NaN3 pH 7.5. Filtered through a 0.4µm membrane.
Molecular Mass	24.6kDa
Endotoxin	< 1.0 eu per µg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE

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Applications	Western blotting, ELISA
Storage	Store it under sterile conditions at -20°C to -130°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.
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 contraction, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy

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(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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