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# Troponin T

National Cancer Institute

## Source

National Cancer Institute. *Troponin T*. NCI Thesaurus. Code C38041.

Troponin I, troponin T, and troponin C are the three closely associated subunits of the troponin complex of thin filaments in muscle. The complex serves as a calcium-sensitive switch that regulates muscle contraction. Troponin T binds tropomyosin to the troponin complex and inhibits F-actin-myosin interactions. The troponin T gene family comprises three isoforms: slow skeletal (TNNT1), cardiac (TNNT2) and fast skeletal (TNNT3). Because it is not normally found in blood, cardiac troponin-T in serum is a sensitive indicator of myocardial cell injury.