

TNNI1

Native Human Troponin I Skeletal

Catalog No.	CSI20342A	Quantity:	100 µg
	CSI20342B		500 µg

Alternate Names: TNN1, TNNI1

Description: Troponin I (TnI) is one of three subunits that form the troponin complex of the thin filaments of striated muscle. The troponin complex serves as a calcium-sensitive switch that regulates striated muscle contraction. Troponin I binds actin and inhibits actomyosin ATPase activity in the absence of calcium. Skeletal muscle troponin I exists in two isoforms, TnI-fast and TnI-slow, expressed respectively in fast and slow-twitch muscle fibers. The two isoforms are characterized by molecular weights ~ 21 kDa (fast) and 22 kDa (slow). The ratios of slow and fast isoforms vary with muscle source and species. Human Troponin is a family of proteins (cardiac troponin I, cardiac troponin T and cardiac troponin C) found in skeletal and heart muscle fibers; cardiac troponin helps muscles contract. Certain subtypes of human troponin (cardiac troponin I and troponin T) are very sensitive and specific indicators of damage to the heart muscle myocardium). Human Troponin(s) are measured in the blood to differentiate between unstable angina and myocardial infarction (heart attack) in patients with chest pain. A patient who had suffered from a myocardial infarction would have an area of damaged heart muscle and so would have elevated cardiac troponin levels in the blood.

Source: Human Skeletal Muscle

Formulation: 8 M urea + 100 mM NaCl + 50 mM Tris.HCl

Storage & Stability: Store at -20°C. **Avoid repeated freeze-thaw cycles.**

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