

TNNI3

Native Human Troponin I Cardiac

Catalog No.	CSI14031A CSI14031B	Quantity:	25 µg 100 µg
Alternate Names:	CMD1FF, CMD2A, CMH7, RCM1, TNNC1, cTnI		
Description:	Human Troponin is a family of proteins (Troponin I, T and C) found in skeletal and heart muscle fibers. Cardiac Troponin helps muscles contract. Troponin I is a part of the troponin complex. Troponin I binds to actin in thin myofilaments to hold the actin-tropomyosin complex in place. Because of it myosin cannot bind actin in relaxed muscle. When calcium binds to the Troponin C it causes conformational changes which lead to dislocation of troponin I and finally tropomyosin leaves the binding site for myosin on actin leading to contraction of muscle. Certain subtypes of human troponin (cardiac troponin I and T) are very sensitive and specific indicators of damage to the heart muscle (myocardium).		
Concentration:	> 0.5 mg/ml (A280)		
Gene ID:	7137		
Source:	Human Heart		
Molecular Weight:	24 kDa		
Formulation:	Frozen Liquid in 50 mM Tris-HCl + 8 M Urea + 15 mM beta-Mercaptoethanol + 1 mM EDTA, pH 8.0		
Purification:	Ion exchange chromatography		
Purity:	>98% by SDS-PAGE		
Storage & Stability:	Store at -20°C. Stable for 2 years. Avoid repeated freeze-thaw cycles.		

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