

TNNI3, TNNC1

Recombinant Single Chain Cardiac Troponin I-C 2nd Generation

Catalog No.	CRT136A	Quantity:	2 µg
	CRT136B		10 µg
	CRT136C		1.0 mg

Alternate Names: Troponin I, cardiac muscle, Cardiac troponin I, Troponin C, slow skeletal and cardiac muscles, TN-C,

Description: Troponin Complex is a heteromeric protein playing an important role in the regulation of skeletal and cardiac muscle contraction. It consists of three subunits, Troponin I, Troponin T and TroponinC. Each subunit is responsible for part of Troponin Complex function. E.g. Troponin I inhibits ATP-ase activity of acto-myosin. Troponin T and Troponin I are presented in cardiac muscles in different forms than in skeletal muscles. Purified subunits of rcTnI, rcTnC and rcTnT are recomplexed in vitro under appropriate conditions.

Recombinant Single Chain Cardiac Troponin I-C 2nd generation produced in *E. coli* is a single, non-glycosylated, polypeptide chain (aa28-110-Linker-cTnC). 1mg of sclC2 is equivalent to 0.82mg of full length human cardiac TNI on a molar basis.

UniProt ID: P19429, P63316,

Source: *E. coli*

Molecular Weight: 30 kDa (aa28-110-Linker-cTnC)

Formulation: Sterile- filtered 20mM Tris-HCl, 250mM NaCl and 50% glycerol, pH 7.5.

Purity: > 90% as determined by SDS-PAGE.

Purification: The sclC2 is purified by proprietary chromatographic techniques.

Storage & Stability: Store at 2-8°C if the entire vial will be used within 1 week. For longer storage it is recommended to add a carrier protein (0.1% HSA or BSA) and store in working aliquots at -20°C to 80°C. **Avoid repeated freeze-thaw cycles.**

Applications: Immunoassays, Western Blot

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