

## scIC2

**Description:** Recombinant Single Chain Cardiac Troponin I-C 2nd generation produced in E.Coli is a single, non-glycosylated, polypeptide chain (aa28-110-Linker-cTnC), having a molecular weight of 30kDa. 1mg of scIC2 is equivalent to 0.82mg of full length human cardiac TNI on a molar basis. The scIC2 is purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-353

For research use only.

**Synonyms:** Troponin I cardiac muscle, Cardiac troponin I, TNNI3, TNNC1, CMH7, RCM1, cTnI, CMD2A, MGC116817, Troponin C slow skeletal and cardiac muscles, TN-C, TNNC1, TNNC, TNC, CMD1Z.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colourless liquid formulation.

**Purity:** Greater than 91.0% as determined by SDS-PAGE.

**Formulation:**

The protein solution contains 20mM Tris-HCl, 250mM NaCl and 50% glycerol, pH 7.5.

**Stability:**

scIC2 although stable at 10°C for 7 days, should be stored below -18°C. Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Applications:**

Immunoassays and western blot.

**Introduction:**

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 Troponin C. 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.

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