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## Product Data Sheet

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Product Name: scIC2  
 Cat. No.: GP24887  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Formulation	The protein solution contains 20mM Tris-HCl, 250mM NaCl and 50% glycerol, pH 7.5.		

### 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.

### Stability

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

### Background

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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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