

---

## Product Data Sheet

---

Product Name: Troponin-C Protein

Cat. No.: GP24890

Batch No.: 1

### Product Data

Purity	>98%	Source	Human cardiac tissue
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Troponin C slow skeletal and cardiac muscles; TN-C; TNNC1; TNNC; TNC; CMD1Z.		
Formulation	The protein solution contains 150 mM NaCl, 10 mM sodium phosphate and 0.05% NaN <sub>3</sub> , (pH 7.0).		

### Introduction

Troponin is a fundamental regulatory protein of striated muscle contraction, and together with tropomyosin, is positioned on the actin filament. Troponin has 3 subunits: TnI- the inhibitor of actomyosin ATPase; TnT- contains the binding site for tropomyosin; and TnC- the protein encoded by the TNNC1 gene. The binding of calcium to TnC stops the inhibitory action of TnI, consequently allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in the TNNC1 gene are linked to cardiomyopathy dilated type 1Z.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Troponin-C Human produced from Human Cardiac Tissue, having a molecular mass of 18kDa. The Troponin-C is purified using a combination of ion-exchange and affinity chromatography steps.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA