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## Product Data Sheet

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Product Name: Troponin-C2 Human  
 Cat. No.: GP24888  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Troponin C; skeletal muscle; TNNC2.		
Amino Acid Sequence	MTDQQAEARS YLSEEMIAEF KAAFDMFDAD GGGDISVKEL GTVMRMLGQT PTKHEELDAII EEVDEDGSGT IDFEFLVMM VRQMKEDAKG KSEEELAECE RIFDRNADGY IDPEELAEIF RASGEHVTDE EIESLMKDGD KNNDGRIDFD EFLKMMEGVQ.		
Formulation	The protein (1mg/ml) contains 20 mM Tris-HCl buffer (pH 7.5), 1mM DTT, 100mM NaCl and 10% glycerol.		

### Introduction

Troponin-C2 (Troponin C, skeletal muscle) is the central regulatory antigen of striated muscle contraction, and modulates the Ca<sup>2+</sup>-activation characteristics of muscle fibers. Troponin-C2 has three subunits, Troponin I(Tn-1), Troponin T(Tn-T) and Troponin C(Tn-C). Tn-I subunit inhibits actomyosin ATPase and Tn-T subunit binds tropomyosin and Tn-C, while Tn-C subunit binds calcium and overcomes the inhibitory action of the troponin complex on actin filaments. Mutations in all components of this complex have been linked with skeletal muscle disease.

### 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-C2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain of 160 amino acids having a molecular mass of 18.1kDa. The Recombinant Human Troponin-C2 is purified by proprietary chromatographic techniques.

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

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