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Certificate of Analysis and Data Sheet

Recombinant Single Chain Cardiac Troponin I-C

Catalog No.

228-11566

Source:

Escherichia coli

Synonyms

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

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.

Description

Recombinant Single Chain Cardiac Troponin I-C produced in E.Coli is a single, non-glycosylated, polypeptide chain having a molecular mass of 45kDa.
The scIC is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered colorless liquid formulation.

Formulation

Each mg/ml of protein contains 50% glycerol.

Purity

Greater than 85.0% as determined by

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Stability

scIC although stable at 10°C for 7 days, should be stored desiccated below -18°C.

Please prevent freeze-thaw cycles.

Applications

Immunoassays and western blot.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**