Certificate of Analysis and Data Sheet

Recombinant Single Chain Cardiac Troponin I-C 2nd generation

Catalog No.	**Source:**
228-11565	*Escherichia coli*

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.

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 TroponinC. 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 Iare 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 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.

Physical Appearance

Sterile Filtered colorless liquid formulation.

Formulation

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

Purity

Greater than 91.0% as determined by SDS-PAGE.

Stability

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

Applications

Immunoassays and western blot.