

Product Datasheet

Name: Recombinant human Cardiac Troponin I protein

Description: Recombinant Human Cardiac Troponin I is produced by E.coli expression system and the target gene is expressed.

Catalog No.	Unit	Usage	Buffer
bs-10877P	mg	Antigen	20mM Tris-HCl+150mM NaCl

Host: E.coli

Range: human TNNI3 (2-210aa)

MW: 23kD

Format: Liquid

Concentration: ≥0.5mg/ml

Purification: ≥90% (SDS-PAGE)

Application: Recommended for sandwich immunoassays in ELISA and CLIA. Each laboratory should determine an optimum working titer for use in its particular application.

Storage: Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Background: Troponin I is a cardiac and skeletal muscle protein useful in the laboratory diagnosis of heart attack. Troponin I is a part of the troponin protein complex, where it binds to actin in thin myofilaments to hold the actin-tropomyosin complex in place. Because of it, myosin cannot bind actin in relaxed muscle. When calcium binds to the troponin C it causes conformational changes which lead to dislocation of troponin I and finally tropomyosin leaves the binding site for myosin on actin leading to contraction of muscle.

Note: This product as supplied is intended for research or further manufacturing use only.