

CATALOGUE #: 8T53dp

PRODUCT NAME: Human cardiac troponin I (cTnI), dephosphorylated

Source: Human heart tissue.

Blood samples from the tissue donors were tested and found negative for HBsAg, HIV-1 and HIV-2

antibodies, HCV, and syphilis.

Tnl is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium Applications:

sensitivity to striated muscle actomyosin ATPase activity.

Cardiac isoform of Tnl (cTnl) has two serine residues at positions 22 and 23 which could be phosphorylated by cAMP-dependent protein kinase (PKA) in response to β-adrenergic stimulation of the heart. Modification of these serines results in the changes of myocardial contractility. About 50%

of cTnI purified from human cardiac tissue is mono- or biphosphorylated.

cTnl purified from human cardiac muscle was dephosphorylated in vitro using alkaline phosphatase

from E. coli.

Tnl is suitable for use as a standard in immunoassay, immunogen for antiserum production.

Analysis: Purity > 95 %.

> Tnl concentration was determined spectrophotometrically using A (0.1 %, 280 nm, 1 cm) equal to 0.42. This coefficient was calculated from the amino composition of human cTnl (FEBS Lett, 270, 57-

Phosphate group removal confirmed by reaction with monoclonal antibody that doesn't react with

phosphorylated cTnI in ELISA and immunoblotting.

Frozen in 60 mM Tris-HCl, pH 7.3, 285 mM NaCl, 6 mM EGTA, 15 mM MgCl₂, 3 mM DTT, 150 μM Presentation:

ATP, 1.5 mM CaCl₂, 2.3 % glycerol and traces of (NH₄)₂SO₄ and alkaline phosphatase.

-20 °C (- 70 °C for long term storage) Storage:

Other

Avoid repeated freezing and thawing. information: