

Datasheet for ABIN934718
Troponin I Protein (TNNI)



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1 Publication

Overview

Quantity: 100 µg

Target: Troponin I (TNNI)

Origin: Human

Source: Human

Protein Type: Native

Product Details

Characteristics: Purified native Human Troponin I protein (Cardiac)

Protein Source: Human cardiac tissue

Purity: > 99 % pure

Target Details

Target: Troponin I (TNNI)

Alternative Name: Troponin I ([TNNI Products](#))

Background: Troponin I is a part of the troponin complex. 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. The letter I is given due to its inhibitory character.

Description: Human cardiac tissue.

Application Details

Application Notes:	Each Investigator should determine their own optimal working dilution for specific applications.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Supplied as a liquid in 8 M Urea buffer with 30 mM NaCl, 50 mM Tris. HCl, 15 mM beta-mercaptoethanol, 1 mM EGTA, pH 8.0
Precaution of Use:	Donor samples were tested and found to be negative for HBsAg, Anti-HIV-1/HIV-2, & HCV. Nonetheless caution should be used when handling this material as there is a margin of error in all tests.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C/-80 °C
Storage Comment:	Store at -20 °C to -70 °C,

Publications

Product cited in:	Mulvaney, Cole, Kniller, Malito, Tamanaha, Rife, Stanton, Whitman: "Rapid, femtomolar bioassays in complex matrices combining microfluidics and magnetoelectronics." in: Biosensors & bioelectronics , Vol. 23, Issue 2, pp. 191-200, (2007) (PubMed).
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