



DataSheet

CATALOGUE #: 8RTI7

PRODUCT NAME: Recombinant human cardiac troponin I (cTnI)

Source: Expressed in *E. coli*

Protein sequence: Product of gene TNNI3; 210 a.a.r.

MADGSSDAAR EPRPAPAPIR RRSSNYRAYA TEPHAKKSK ISASRKLQLK TLLLQIAKQE
LEREAEERRG EKGRALSTRC QPLELAGLGF AELQDLRQL HARVDKVDDEE RYDIEAKVTK
NITEIADLTQ KIFDLRGKFK RPTLRRVRIS ADAMMQALLG ARAKESLDLR AHLKQVKKED
TEKENREVGD WRKNIDALSG MEGRKKKFES

Recombinant human cardiac TnI contains additional methionine residue at the N-terminus (in comparison with native protein expressed in cardiomyocytes).

Application: Calibrator or standard in immunoassays, immunogen for antisera production, mass cTnI standard

Analysis: Purity > 95 % (SDS-PAGE)

Concentration is determined spectrophotometrically, abs 0.1% (1 g/L) - 0.420 (measured at 280 nm)

Immunological activity: Immunoreactivity is confirmed by reaction with several monoclonal antibodies specific to different epitopes of human cardiac TnI isoform

Purification: Immunoaffinity purification followed by ion-exchange chromatography

Presentation: Lyophilized from 0.01 M HCl

It is recommended to reconstitute this product with Tris/urea buffer (20 mM Tris, pH 7.5, 7 M urea, 5 mM EDTA, 15 mM 2-mercaptoethanol), to a concentration close to 1 mg/ml.

Storage: Lyophilized -20°C (-15 ... -30 °C allowed)

Reconstituted -70°C (-65 ... -80 °C allowed)

Other information: Avoid repeated freezing and thawing. It is recommended to aliquot the product after reconstitution.

Material safety note: This product is sold **for research use only**. Standard Laboratory Practices should be followed when handling this material.

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