

**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 ISASRKLQK TLLLQIAKQE  
LERAEEERRG EKGRALSTRC QPLELAGLGF AELQDLCRQL 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 or further manufacturing use only**. Standard Laboratory Practices should be followed when handling this material.