

CATALOGUE #: 8RTT5

PRODUCT NAME: Recombinant human cardiac troponin T (cTnT)

Synonym names: Human cardiac troponin T adult isoform, human cardiac troponin T isoform #6 or TnT3

Source: Expressed in *E. coli*

Protein sequence: Product of gene TNNT2; 288 a.a.r.

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MSDIEEVVEE YEEEEQEEAA VEEQEEAAEE DAEAEAEETEE TRAEDEDEEEE EAKEAEDGPM  
EESKPKPRSF MPNLVPPKIP DGERVDFDDI HRKRMEKDLN ELQALIEAHF ENRKKEEEL  
VSLKDRIERR RAERAEQQRI RNEREKERQN RLAEERARRE EEENRRKAED EARKKKALSN  
MMHFGGYIQK QAQTERKSGK RQTEREKKKK ILAERRKVLV IDHLNEDQLR EKAKELWQSI  
YNLEAEKFDL QEKFKQKYE INVLRNRIND NQKVSCTR GK AKVTGRWK
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Recombinant human cardiac TnT 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 cTnT standard

Analysis: Purity > 95 % (SDS-PAGE)

Concentration is determined spectrophotometrically, abs 0.1% (1 g/L) - 0.490 (measured at 280 nm)

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