

## Recombinant Human Cardiac Troponin-T

### Certificate of Analysis and Data Sheet

<b>Source:</b> E.Coli	<b>Catalog No.</b> PRO-342
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#### Background:

One of the three polypeptide chains that make up the TROPONIN complex. It is a cardiac-specific protein that binds to tropomyosin. It is released from only damaged or injured heart tissue and cells.

#### Description :

Recombinant Human Cardiac Troponin-T produced in E.Coli is a single, non-glycosylated, polypeptide chain having a molecular mass of 40kDa.

Recombinant Cardiac Troponin-C is purified by proprietary chromatographic techniques.

#### Physical Appearance:

Sterile Filtered colourless liquid formualtion

#### Formulation:

0.5 mg/ml glycerol

#### Stability:

Recombinant Human Cardiac Troponin-T is stable at 10°C between 2-7 days ,however, should be stored desiccated below -18°C.

**Please avoid freeze-thaw cycles.**

#### Purity:

Greater than 90.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Anion-exchange FPLC.

(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

#### Dimers and aggregates:

Less than 1% as determined by silver-stained SDS-PAGE gel analysis.

#### Endotoxin:

Less than 0.1 ng/μg (IEU/μg) of human TnT.

#### Usage:

This material is offered for research, laboratory or further evaluation purposes.

#### Gene:

Name:TNNT2

#### Protein synonyms/aliases:

Troponin T, cardiac muscle (TnTc)

(Cardiac muscle troponin T)

(cTnT).

#### Protein Family:

Belongs to the troponin T family.

🔄 **Latest Publications:**

1. Effect of competitive marathon cycling on plasma N-terminal pro-brain natriuretic peptide and cardiac troponin T in healthy recreational cyclists.

Am J Cardiol 2005 Sep 1;96(5):732-5

2. Prolonged exercise should be considered alongside typical symptoms of acute myocardial infarction when evaluating increases in cardiac troponin T.

Heart 2005 Sep;91(9):1219-20

3. Changes in cardiac troponin T measurements are associated with adverse cardiac events in patients with chronic kidney disease.

Am J Emerg Med 2005 Jul;23(4):468-73

4. Comparison of serum cardiac troponin T and creatine kinase MB isoenzyme mass concentrations in asphyxiated term infants during the first 48 h of life.

J Paediatr Child Health 2005 Jul;41(7):331-7

5. Cardiac troponin T in patients with kidney disease.

Ther Apher Dial 2005 Jun;9(3):205-7

6. Low prevalence of cardiac troponin T mutations in a Greek hypertrophic cardiomyopathy cohort.

Heart 2005 Jul;91(7):966-7