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# Recombinant human Troponin T protein

Catalog Number: ATGP0329

#### **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-285aa

#### **UniProt No.**

P45379

#### **NCBI Accession No.**

NP 001001431.1

#### **Alternative Names**

Troponin T type 2 cardiac isoform 3, Troponin T type 2, cardiac isoform 3, CMH2, CMPD2, cTnT, RCM3, TnTC, Troponin T type 2, cardiac isoform 3 Cardiac muscle troponin T, MGC3889, TNNT 2, TNNT2, Cardiomyopathy hypertrophic 2, Cardiomyopathy dilated 1D (autosomal dominant), CMD1D, Troponin T cardiac muscle, Troponin T type 2 (cardiac), Troponin T type 2 cardiac, Troponin T2 cardiac.

### **PRODUCT SPECIFICATION**

## **Molecular Weight**

36.4 kDa (305aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

## **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 0.5M NaCl, 0.1mM PMSF, 1mM DTT, 100mM imidazole

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### **BACKGROUND**

#### **Description**

Troponin T, also known as TNNT2, is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in



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intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with restrictive and dilated cardiomyopathy. Recombinant human TNNT2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

## **Amino acid Sequence**

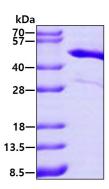
<MGSSHHHHHH SSGLVPRGSH> MSDIEEVVEE YEEEEQEEAA VEEQEEAAEE DAEAEAETEE TRAEEDEEEE EAKEAEDGPM EESKPKPRSF MPNLVPPKIP DGERVDFDDI HRKRMEKDLN ELQALIEAHF ENRKKEEEEL VSLKDRIERR RAERAEQQRI RNEREKERQN RLAEERARRE EEENRRKAED EARKKKALSN MMHFGGYIQK TERKSGKRQT EREKKKKILA ERRKVLAIDH LNEDQLREKA KELWQSIYNL EAEKFDLQEK FKQQKYEINV LRNRINDNQK VSKTRGKAKV TGRWK

#### **General References**

Yu H., et al. (2009), Proteomics. 9(3):504-11. Morita H., et al. (2008). N Engl J Med. 358(18):1899-908.

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

