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## Product Data Sheet

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Product Name: TNNT2 Human  
 Cat. No.: GP24855  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CMH2; RCM3; TnTC; cTnT; CMPD2; MGC3889; TNNT2; Troponin T- cardiac muscle; Cardiac muscle troponin T; troponin T type 2 (cardiac).		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSDIEEVVEE YEEEEQEEAA VEEQEEAAEE DAEAEAETEE TRAEDEEEEE EAKEAEDGPM EESKPKPRSF MPNLVPPKIP DGERVDFDDI HRKRMEKDLN ELQALIEAHF ENRKKEEEEEL VSLKDRIERR RAERAEQQRI RNEREKERQN RLAEERARRE EEENRRKAED EARKKKALSN MMHFGGYIQK TERKSGKRQT EREKKKKILA ERRKVLAIHD LNEQLREKA KELWQSIYNL EAEKFDLQEK FKQQKYEINV LRNRINDNQK VSKTRGKAKV TGRWK.		
Formulation	The TNNT2 solution contains 20mM Tris pH-8 & 10% glycerol.		

### Introduction

TNNT2 is the tropomyosin-binding subunit of the troponin complex, which is situated on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in TNNT2 gene are related with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. TNNT2 mutation takes part in hypertrophic cardiomyopathy.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

TNNT2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 305 amino acids (1-285 a.a.) and having a molecular mass of 36.4 kDa.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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The TNNT2 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

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