

**Troponin T, 1-285 aa, Human, His-tagged, Recombinant, E.coli**

**Cat.NO.: TP04313**

3th Edition

**Synonyms:**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

**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 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.

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

**Molecular Weight:**36.4 kDa (305aa), confirmed by MALDI-TOF.

**Sequences:**

MGSSHHHHHSSGLVPRGSHMSDIEEVVEEYEEEEQEEAAVEEQEEAAEEDAEAEAETEETRAEEDEEEEAKEA  
EDGPMEEESKPKPRSFMPNLVPPKIPDGERVDFDDIHRKRMEKDLNELQALIEAHFENRKKEEEEELVSLKDRIERRRA  
ERAEQQRIRNEREKERQNRLAEERARREEEENRRKAEDEARKKKALSMMHFGGYIQKTERKSGKRQTEREKKK  
KILAEERRKVLAIHDLNEDQLREKAKELWQSIYNLEAEKFDLQEKFKQKQKYEINVLNRNRINDNQKVSCTRKGAKVTR  
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**Purity:**> 95% by HPLC

**Concentration:**0.25 mg/ml (determined by Bradford assay).

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.