

# Product information

## Troponin T, 1-285 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0329

**Full name:** Troponin T type 2, cardiac isoform 3

**NCBI Accession No.:** NP\_001001431

**Synonyms:** CMH2, CMPD2, cTnT, RCM3, TnTC

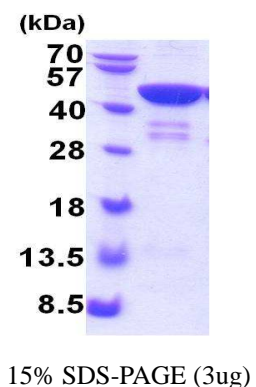
**Description:** Troponin T, also known as TNNT2, is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been 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

**Purity:** > 90% by SDS - PAGE

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



### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MSDIEEVVEE YEEEEQEEAA VEEQEEAAEE DAEAEAEETEE TRAEDEEEEE EAKEAEDGPM EESKPKPRSF  
 MPNLVPPKIP DGERVDFDDI HRKRMEKDLN ELQALIEAHF ENRKKEEEEL VSLKDRIERR RAERAQQRI RNEREKERQN RLAEERARRE  
 EEENRRKAED EARKKKALSNN MMHFGGYIQK TERKSGKRQT EREKKKKILA ERRKVLAI DH LNEQDLREKA 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.

**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**