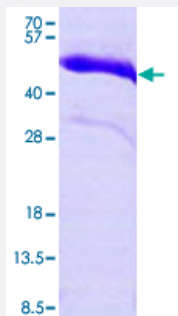


Full-Length

TNNT2 (Human) Recombinant Protein

Catalog # P3537 Size 100 ug

Applications



Specification

Product Description	Human TNNT2 (NP_001001431, 1 a.a. - 285 a.a.) full-length recombinant protein with His tag expressed in <i>Escherichia coli</i> .
Sequence	MGSSHHHHHSSGLVPRGSHMSDIEEVVEEYEEEEQEEAAVEEQEEAAEEDAEAEAETEETRA EEDEEEEEAKEAEDGPMEESKPKPRSFMPNLVPPKIPDGERVDFDDIHRKRMEKDLNELQALIE AHFENRKKEEEELVSLKDRIERRRAERAEQQRIRNEREKERQNRLAEERARREEEENRRKAEDE ARKKKALSNMMHFGGYQKTERKSGKRQTEREKKKKILAERRKVLAIIDLHNLNEDQLREKAKELWQSI YNLEAEKFDLQEKFKQKQYEINVLNRNRINDNQKVSKTRGKAKVTGRWK
Host	<i>Escherichia coli</i>
Theoretical MW (kDa)	36.4
Form	Liquid
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Conventional Chromatography
Concentration	1 mg/mL
Purity	> 90% by SDS-PAGE
Quality Control Testing	Loading 3 ug protein in 15% SDS-PAGE

Storage Buffer

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

Storage Instruction

Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — TNNT2

Entrez GeneID[7139](#)**Protein Accession#**[NP_001001431](#)**Gene Name**

TNNT2

Gene Alias

CMH2, CMPD2, MGC3889, RCM3, TnTC, cTnT

Gene Description

troponin T type 2 (cardiac)

Omim ID[115195](#) [191045](#) [601494](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene 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 dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined. [provided by RefSeq]

Other Designations

OTTHUMP00000033864|OTTHUMP00000033867|cardiomyopathy, dilated 1D (autosomal dominant)|cardiomyopathy, hypertrophic 2|troponin T type 2, cardiac|troponin T, cardiac muscle|troponin T2, cardiac

Pathway

- [Cardiac muscle contraction](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)

Disease

- [Cardiomegaly](#)
- [Cardiomyopathies](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Death](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertrophy](#)
- [Lipid Metabolism](#)
- [Mitochondrial Myopathies](#)
- [Tachycardia](#)