

Product datasheet for **AR09210PU-N**

Cardiac Troponin T (1-285, His-tag) Human Protein

Product data:

| | |
|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Cardiac Troponin T (1-285, His-tag) human recombinant protein, 0.1 mg |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | <u>MGSSHHHHHH SSGLVPRGSH</u> MSDIEEVVEE YEEEEQEEAA VEEQEAAEE DAEAEAETEE TRAEDEEEEE EAKEAEDGPM EESKPKPRSF MPNLVPPKIP DGERVDFDDI HRKRMEKDLN ELQALIEAHF ENRKKEEEL VSLKDRIERR RAERAEQQRI RNEREKERQN RLAEERARRE EEENRRKAED EARKKKALS NMMHFGGYIQK TERKSGKRQT EREKKKKILA ERRKVLAI DH LNEDQLREKA KELWQSIYNL EAEKFDLQEK FKQQKYEINV LRNRINDNQK VSKTRGKAKV TGRWK |
| Tag: | His-tag |
| Predicted MW: | 36.4 kDa |
| Concentration: | lot specific |
| Purity: | >90% by SDS - PAGE |
| Buffer: | Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol |
| Preparation: | Liquid purified protein |
| Protein Description: | Recombinant human TNNT2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. |
| Storage: | Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| RefSeq: | <u>NP_000355</u> |
| Locus ID: | 7139 |
| UniProt ID: | <u>P45379</u> |
| Cytogenetics: | 1q32.1 |
| Synonyms: | CMD1D; CMH2; CMPD2; cTnT; LVNC6; RCM3; TnTC |



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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, Jul 2008]

Protein Families:

Druggable Genome

Protein Pathways:

Cardiac muscle contraction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM)

Product images: