# TNNI3 (Human) Recombinant Protein

Catalog # P7512 Size 10 ug

## Specification

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|---|---|
| **Product Description** | Human TNNI3 (P19429, 2 a.a. - 210 a.a.) partial recombinant protein with His tag at N-terminus expressed in *Escherichia coli*. |
| **Sequence** | ADGSSDAAREPRPAPAPIRRRSSNYRAYATEPHAKKKSKISASRKLQLKTLLLQIAKQELEREAEERRGEKGRALSTRCQPLELAGLGFAELQDLCRQLHARVDKVDEERYDIEAKVTKNITEIADLTQKIFDLRGKFKRPTLRRVRISADAMMQALLGARAKESLDLRAHLKQVKKEDTEKENREVGDWRKNIDALSGMEGRKKKFES |
| **Host** | Escherichia coli |
| **Theoretical MW (kDa)** | 26 |
| **Form** | Lyophilized |
| **Preparation Method** | *Escherichia coli* expression system |
| **Purity** | > 95% by SDS-PAGE |
| **Storage Buffer** | Lyophilized from sterile distilled Water up to 100 ug/mL |
| **Storage Instruction** | Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C.<br>Aliquot to avoid repeated freezing and thawing. |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — TNNI3

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| **Entrez GeneID** | 7137 |

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|---|---|
| **Protein Accession#** | P19429 |
| **Gene Name** | TNNI3 |
| **Gene Alias** | CMD2A, CMH7, MGC116817, RCM1, TNNC1, cTnI |
| **Gene Description** | troponin I type 3 (cardiac) |
| **Omim ID** | 115210 191044 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form th e troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking ac tin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contai ns three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encod es the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in thi s gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiom yopathy (RCM). [provided by RefSeq |
| **Other Designations** | familial hypertrophic cardiomyopathy 7\|troponin I, cardiac |

## Pathway

- Cardiac muscle contraction
- Hypertrophic cardiomyopathy (HCM)

## Disease

- Alzheimer disease
- Cardiomegaly
- Cardiomyopathy
- Cardiovascular Diseases
- Death
- Diabetes Complications
- Genetic Diseases
- Genetic Predisposition to Disease
- Hypertrophy

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- Lipid Metabolism
- Metabolic Syndrome X
- Mitochondrial Myopathies
- Neoplasms
- Osteoporosis
- Tachycardia

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