

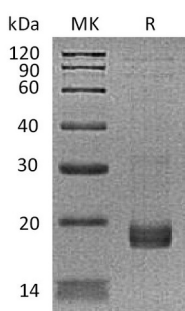
**Product Name: Recombinant Human TNNC1 (N-6His)**  
**Catalog #: PEH1894**



## Summary

|                                 |  |
|---------------------------------|--|
| <b>Name</b>                     | Troponin C/TN-C/TNNC1  |
| <b>Purity</b>                   | Greater than 95% as determined by reducing SDS-PAGE  |
| <b>Endotoxin level</b>          | <1 EU/μg as determined by LAL test.  |
| <b>Construction</b>             | Recombinant Human Slow Skeletal And Cardiac Muscles is produced by our E.coli expression system and the target gene encoding Met1-Glu161 is expressed with a 6His tag at the N-terminus. |
| <b>Accession #</b>              | P63316   |
| <b>Host</b>                     | E.coli   |
| <b>Species</b>                  | Human  |
| <b>Predicted Molecular Mass</b> | 19.8 KDa   |
| <b>Formulation</b>              | Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 100mM NaCl, 1mM DTT, 10% Glycerol, pH 8.0.  |
| <b>Shipping</b>                 | The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.   |
| <b>Stability&amp;Storage</b>    | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.                     |
| <b>Reconstitution</b>           |  |

## SDS-PAGE image



## Background

|                          |   |
|--------------------------|---|
| <b>Alternative Names</b> | CMH7; TNNC1; TNNI3; Troponin I  |
| <b>Background</b>        | Troponin I, also known as TNI, is a 24 kDa component of a protein complex on striated muscle thin filaments. Troponin is the central regulatory protein of striated |

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muscle contraction. Tn consists of three components: Tn-I which is the inhibitor of actomyosin ATPase, Tn-T which contains the binding site for tropomyosin and Tn-C. The binding of calcium to Tn-C abolishes the inhibitory action of Tn on actin filaments. Troponin I inhibits the calcium-dependent muscle contraction mediated by Troponins C and T. The expression of cardiac Troponin I (TNNI3) is restricted to cardiac muscle, while TNNI1 and TNNI2 (encoded by distinct genes) are expressed in skeletal muscle. Mutations of cardiac Troponin I are associated with hereditary cardiomyopathy. Human cardiac Troponin I shares 93% amino acid sequence identity with mouse and rat cardiac Troponin I.

### **Note**

For Research Use Only , Not for Diagnostic Use.