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# Recombinant Human TNNC1 Protein (His Tag)

Catalog Number: PDEH100779

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### Description

Species Human

Source E.coli-derived Human TNNC1 protein Met1-Glu161, with an N-terminal His

**Calculated MW** 17.6 kDa Observed MW 17 kDa Accession P63316

Not validated for activity **Bio-activity** 

#### **Properties**

**Purity** > 95% as determined by reducing SDS-PAGE.

**Endotoxin** < 10 EU/mg of the protein as determined by the LAL method

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -Storage

80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

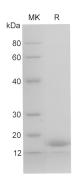
This product is provided as lyophilized powder which is shipped with ice packs. Shipping **Formulation** 

Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5%

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution

of 0.5 mg/mL. Concentration is measured by UV-Vis.

#### Data



SDS-PAGE analysis of Human TNNC1 proteins, 2 µg/lane of Recombinant Human TNNC1 proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 17 kDa.

### **Background**

Troponin I, also known as TNNC1, is part of the troponin complex. This complex contains 3 subunits: troponin I (TnI), troponin T (TnT) and troponin C (TnC). Troponin I is the inhibitory subunit, blocking actin-myosin interactions and thereby mediating striated muscle relaxation. It binds to actin in thin myofilaments to hold the actin-tropomyosin complex in place. Because of it myosin cannot bind actin in relaxed muscle. When calcium binds to the Troponin C it causes conformational changes which lead to dislocation of troponin I and finally tropomyosin leaves the binding site for myosin on actin leading to contraction of muscle.

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