

## Recombinant Troponin C

**Catalog #:** L4C01301      **Lot #:** L20200901

**Description:** Troponin-C His Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain fused with a His-tag at N-terminus .

**Background:** Troponin is a central regulatory protein of striated muscle contraction, and together with tropomyosin, is located on the actin filament. Troponin consists of 3 subunits: TnI, which is the inhibitor of actomyosin ATPase; TnT, which contains the binding site for tropomyosin; and TnC, the protein encoded by this gene. The binding of calcium to TnC abolishes the inhibitory action of TnI, thus allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in this gene are associated with cardiomyopathy dilated type 1Z.

**Source:** E. Coli      **Species:** homo sapiens

**Molecular weight:** 20.5 KD (with Tag protein)

**Concentration:** 1.1mg/ml

**Purity:** >85% by SDS-PAGE

**Formulation :** The Troponin- C solution contains 20mM Tris- HCl buffer (pH 8.0) , 5% Trehalose, 1mMEDTA.

**Application:** ELISA; Positive Control; Immunogen; SDS-PAGE; WB. Other applications have not been tested . If bio-activity of the protein is needed, please check active protein.

**Storage & Expiration:** Ship at 4°C. Upon receipt, aliquot and store at -20°C or -40°C for long term. Avoid repeated freeze and thaw cycles.

### For research use only.