

Recombinant Human Cardiac Troponin C (TnC)

ORDERING INFORMATION

Catalog Number	Size
24000P-20	20ug
24000P-100	100ug
24000P-1000	1000ug

Formulation: Sterile-filtered solution in 150mM NaCl, 10mM sodium phosphate, pH 7.0, and 0.05% sodium azide. Purified by proprietary chromatographic techniques.

BACKGROUND

Troponin is a fundamental regulatory protein of striated muscle contraction, and, together with tropomyosin, is positioned on the actin filament. Troponin has 3 subunits: TnI, the inhibitor of actomyosin ATPase, TnT, which contains the binding site for tropomyosin, and TnC, the protein encoded by the TNNC1 gene. Binding of calcium to TnC stops the inhibitory action of TnI, allowing the interaction of actin with myosin, the hydrolysis of ATP, and the generation of tension. Mutations in the TNNC1 gene are linked to cardiomyopathy dilated type 1Z.

DESCRIPTION

Recombinant Human TnC produced in *E. coli* is a single, non-glycosylated polypeptide chain with a molecular weight of 18 kDa.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

Purity: Greater than 95% as determined by SDS-PAGE and RP-HPLC.

Accession number: P63316

STORAGE AND STABILITY

Although stable at room temperature for 3 weeks, product is best stored at 4°C. Addition of a carrier protein (such as 0.1% HSA or BSA) is recommended for long-term storage.

For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.