

## Recombinant Human Cardiac Troponin I-C Complex

### ORDERING INFORMATION

Catalog No.	Size
24103P-2	2ug
24103P-10	10ug
24103P-1000	1000ug

**Format:** 500mM NaCl, 20mM Tris-HCl, and 60mM  $\beta$ -mercaptoethanol, pH 7.5. Cardiac Troponin I-C complex is purified by proprietary chromatographic techniques.

### BACKGROUND

Troponin Complex is a heteromeric protein complex comprised of Troponin I, Troponin T, and Troponin C subunits that function in the regulation of skeletal and cardiac muscle contraction. Each subunit has a unique function; Troponin T binds the troponin components to tropomyosin, troponin I inhibits the interaction of myosin with actin, and troponin C contains the binding sites for  $Ca^{2+}$  that helps initiate contraction. Troponin is the current biomarker of choice for the detection of cardiac injury.

### DESCRIPTION

**Source:** Recombinant human Cardiac Troponin I-C complex is produced in *E. coli* as a single, non-glycosylated, polypeptide chain of ~50kDa. The molar ratio of Cardiac Troponin I to Cardiac Troponin C is 1:1.

**Purity:** Greater than 90% as determined by RP-HPLC and SDS-PAGE.

**Carrier Protein:** None.

### STORAGE

Store at 4°C if entire quantity of product will be used within 2-4 weeks or at -20°C long-term in appropriate aliquots to avoid multiple freeze-thaw cycles.

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