

Recombinant Human Cardiac Troponin I (TnI)

ORDERING INFORMATION

Catalog Number	Size
24001P-10	10ug
24001P-50	50ug
24001P-1000	1000ug

Formulation: Sterile-filtered solution in 50mM Tris, pH 8.0 and 6M urea. Purified by proprietary chromatographic techniques.

BACKGROUND

Troponin I (TnI) troponin T (TnT) and troponin C (TnC) form the troponin complex of thin filaments of striated muscle. TnI acts as the inhibitory subunit by blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily consists of 3 genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. The TNNI3 gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissue. Mutations in the TNNI3 gene cause familial hypertrophic cardiomyopathy type 7 and familial restrictive cardiomyopathy.

DESCRIPTION

Recombinant Human TnI produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 165 amino acids with a molecular weight of 24 kDa.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

Purity: Greater than 98% as determined by SDS- PAGE and RP-HPLC.

Accession number: P19429

STORAGE AND STABILITY

Although stable at 4°C for 1 week, product is best stored at or below -20°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.