

Recombinant Human Cardiac Troponin T (TnT)

ORDERING INFORMATION

Catalog Number	Size
24102P-5	5ug
24102P-20	20ug
24102P-1000	1000ug

Formulation: Sterile-filtered colorless solution in 20mM Tris, pH 8.0, 10% glycerol. Purified by proprietary chromatographic techniques.

BACKGROUND

Troponin T (TnT) is the tropomyosin-binding subunit of the troponin complex which is situated on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentrations. Mutations in the TNNT2 gene are associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy and hypertrophic cardiomyopathy.

DESCRIPTION

Recombinant Human TnT produced in *E. coli* is a single, non-glycosylated polypeptide containing 305 amino acids (aa 1-285) with a molecular weight of 36.4kDa. It is fused to a 20-amino acid His-tag at the N-terminus.

Purity: Greater than 90% as determined by SDS- PAGE.

Accession number: P45379.3

AMINO ACID SEQUENCE

MGSSHHHHHH SSSLVPRGSH MSDIEEVVEE
YEEEEQEEAA VEEQEEAAEE DAEAEAETEE
TRAEDEEEEE EAKEAEDGPM EESKPKPRSF
MPNLVPPKIP DGERVDFDDI HRKRMEKDLN
ELQALIEAHF ENRKKEEEL VSLKDRIERR
RAERAEQQRI RNEREKERQN RLAEERARRE
EEENRRKAED EARKKKALSN MMHFGGYIQK
TERKSGKRQT EREKKKKILA ERRKVLAIH
LNEDQLREKA KELWQSIYNL EAEKFDLQEK
FKQQKYEINV LRNRINDNQK VSKTRGKAKV
TGRWK

STORAGE AND STABILITY

Store at 4°C if entire vial will be used within 2-4 weeks. Store at -20°C for longer periods of time. For long term storage, addition of 0.1% human serum albumin or bovine serum albumin is recommended. Avoid multiple freeze-thaw cycles.

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