

Recombinant human Troponin T protein

Catalog Number: ATGP0329

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-285aa

UniProt No.

P45379

NCBI Accession No.

NP_001001431.1

Alternative Names

Troponin T type 2 cardiac isoform 3, Troponin T type 2, cardiac isoform 3, CMH2, CMPD2, cTnT, RCM3, TnTC, Troponin T type 2, cardiac isoform 3 Cardiac muscle troponin T, MGC3889, TNNT 2, TNNT2, Cardiomyopathy hypertrophic 2, Cardiomyopathy dilated 1D (autosomal dominant), CMD1D, Troponin T cardiac muscle, Troponin T type 2 (cardiac), Troponin T type 2 cardiac, Troponin T2 cardiac.

PRODUCT SPECIFICATION

Molecular Weight

36.4 kDa (305aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 0.5M NaCl, 0.1mM PMSF, 1mM DTT, 100mM imidazole

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Troponin T, also known as TNNT2, is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in

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intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with restrictive and dilated cardiomyopathy. Recombinant human TNNT2 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

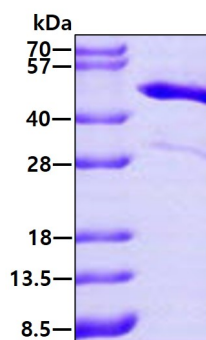
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RAERAEQQRI RNEREKERQN RLAEERARRE EEENRRKAED EARKKKALSN MMHFGGYIQK TERKSGKRQT EREKKKKILA
ERRKVLAIHD LNEDQLREKA KELWQSIYNL EAEKFDLQEK FKQQKYEINV LRNRINDNQK VSKTRGKAKV TGRWK

General References

Yu H., et al. (2009), *Proteomics*. 9(3):504-11.
Morita H., et al. (2008). *N Engl J Med*. 358(18):1899-908.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.