Recombinant human TNNC1 protein

Catalog Number: ATGP1260

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-161aa

UniProt No.
P63316

NCBI Accession No.
NP_003271

Alternative Names
Troponin C type 1, CMD1Z, CMH13, TN-C, TNC, TNNC

PRODUCT SPECIFICATION

Molecular Weight
20.5 kDa (181aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity
> 95% 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 C type 1, also known as TNNC1, is a member of troponins family. Troponin has 3 subunits, Troponin I (Tn-I), Troponin T (Tn-T) and Troponin C (Tn-C). Tn-I subunit inhibits actomyosin ATPase and Tn-T subunit binds tropomyosin and Tn-C, while Tn-C subunit binds calcium and overcomes the inhibitory action of the troponin complex on actin filaments. TNNC1 is dumbbell-shaped and has a hydrophobic pocket that increases the contractile force of muscle fibers. Recombinant human TNNC1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

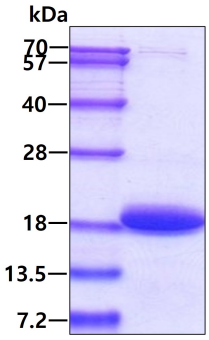
<MGSSHHHHHH SSGLVPRGSH> MDDIYKAAVE QLTEEQKNEF KAAFDIFVLG AEDGCISTKE LGKVMRMLGQ NPTPEELQEM IDEVDEDGSG TVDFDEFLVM MVRCMKDDSK GKSEEELSDL FRMFDKNADG YIDLDELKIM LQATGETITE DDIEELMKDG DKNNDGRIDY DEFLEFMKGV E

General References

Wu A H)., et al. (1998) Clin Chem. 44:1198-1208.
Hamm C W., et al. (2001) Thromb Res. 103:S63-S69.

DATA

SDS-PAGE



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