

# Recombinant human Cardiac Troponin I3/TNNI3 protein

Catalog Number: ATGP3835

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

1-210aa

**UniProt No.**

P19429

**NCBI Accession No.**

NP\_000354.4

**Alternative Names**

Troponin I3, CMD1FF, CMD2A, CMH7, cTnI, RCM1, TNNC1

## PRODUCT SPECIFICATION

**Molecular Weight**

26.4 kDa (233aa) confirmed by MALDI-TOF

**Concentration**

0.25mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 30% glycerol, 0.1M NaCl, 0.1mM PMSF, 1mM DTT

**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**

TNNI3, also known as Troponin I3, is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TNNI3 is responsible for inhibition of actomyosin ATPase activity. Therefore, TNNI3 is a key regulatory protein in cardiac muscle contraction and relaxation cycle. Recently, specific missense mutations of the TNNI3 gene have been shown to cause familial hypertrophic cardiomyopathy. Recombinant human TNNI3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional chromatography.

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## Amino acid Sequence

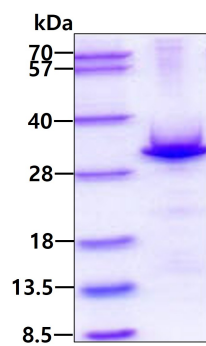
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QLKTLLLQIA KQELEREAE RRGEKGRALS TRCQPLELAG LGFAELQDLC RQLHARVDKV DEERYDIEAK VTKNITEIAD  
LTQKIFDLRG KFKRPTLRRV RISADAMMQA LLGARAKESL DLRAHLKQVK KEDTEKENRE VGDWRKNIDA LSGMEGRKKK  
FES

## General References

DW Sohn., et al. (2017) Korean Circ J. 47(3):413-417.  
Elliot K., et al. (2000) J Biol Chem. 275(29):22069-74.

## DATA

### SDS-PAGE



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