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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

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Amino acid Sequence

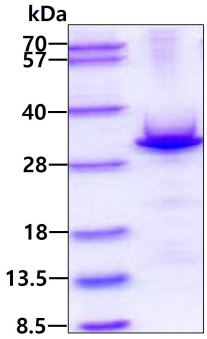
<MGSSHHHHHH SSGLVPRGSH MGS>MADGSSD AAREPRPAPA PIRRRSSNYR AYATEPHAKK KSKISASRKL QLKTLLLQIA KQELEREAEE RRGEKGRALS TRCQPLELAG LGFAELQDLC RQLHARVDKV DEERYDIEAK VTKNITEIAD LTQKIFDLRG KFKRPTLRRV RISADAMMQA LLGARAKESL DLRAHLKQVK KEDTEKENRE VGDWRKNIDA LSGMEGRKKK FES

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.