

Active Recombinant Human TNNI3 protein, His-tagged

Cat. No. TNNI3-871H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human TNNI3 protein(P19429)(1~203 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-203 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Troponin I Type 3, Cardiac (TNNI3) is a protein that in humans is encoded by the TNNI3 gene. It is a tissue-specific subtype of troponin I, which in turn is a part of the troponin complex. The TNNI3 gene encoding cardiac troponin I (cTnI) is located at 19q13.4 in the human chromosomal genome. Human cTnI is a 24kDa protein consisting of 210 amino acids with isoelectric point (pI) of 9.87. cTnI is exclusively expressed in adult cardiac muscle. Besides, Troponin T Type 2, Cardiac (TNNT2) has been identified as an interactor of TNNI3, thus a binding ELISA assay was conducted to detect the interaction of recombinant human TNNI3 and recombinant human TNNT2. Briefly, TNNI3 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100μL were then transferred to TNNT2-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-TNNI3 pAb, then aspirated and washed 3 times. After incubation with HRP

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labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of TNNI3 and TNNT2 was shown, and this effect was in a dose dependent manner.

Molecular Mass	26.8kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 97% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TNNI3 troponin I type 3 (cardiac) [Homo sapiens]
Official Symbol	TNNI3
Synonyms	TNNI3; troponin I type 3 (cardiac); troponin I, cardiac; troponin I, cardiac muscle; CMH7; TNNC1; RCM1; cTnI; CMD2A; CMD1FF; MGC116817;
Gene ID	7137
mRNA Refseq	NM_000363

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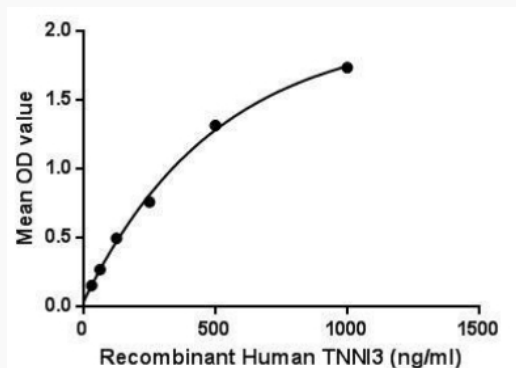
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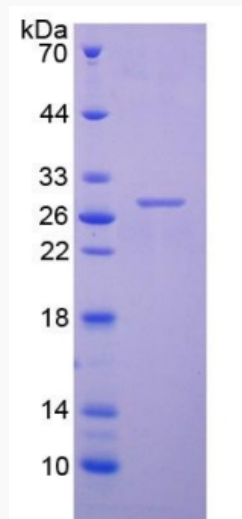
MIM 191044

UniProt ID P19429

Activity



SDS-PAGE



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