

[Go to Product page](#)

Datasheet for ABIN7319455 **TNNC1 Protein (His tag)**

Overview

Quantity:	50 µg
Target:	TNNC1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNNC1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Troponin C/TNNC1 Protein (His Tag)
Sequence:	Met1-Glu161
Characteristics:	Recombinant Human Troponin C is produced by our E.coli expression system and the target gene encoding Met1-Glu161 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	TNNC1
Alternative Name:	TNNC1 (TNNC1 Products)
Background:	Background: Troponin I, also known as TNI, is a 24 kDa component of a protein complex on striated muscle thin filaments. Troponin is the central regulatory protein of striated muscle contraction. Tn consists of three components: Tn-I which is the inhibitor of actomyosin

Target Details

ATPase, Tn-T which contains the binding site for tropomyosin and Tn-C. The binding of calcium to Tn-C abolishes the inhibitory action of Tn on actin filaments. Troponin I inhibits the calcium-dependent muscle contraction mediated by Troponins C and T. The expression of cardiac Troponin I (TNNI3) is restricted to cardiac muscle, while TNNI1 and TNNI2(encoded by distinct genes) are expressed in skeletal muscle. Mutations of cardiac Troponin I are associated with hereditary cardiomyopathy. Human cardiac Troponin I shares 93 % amino acid sequence identity with mouse and rat cardiac Troponin I.

Synonym: CMD1Z,CMH13,TN-C,TNC,TNNC

Molecular Weight: 19.8 kDa

UniProt: [P63316](#)

Application Details

Comment: 17-20 kDa

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 µm filtered solution of 20 mM Tris,100 mM NaCl,1 mM DTT,10 % glycerol, pH 8.0.

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.