

Troponin C/TNNC1 Protein, Human (His)

Cat. No.:	HY-P71372
Synonyms:	CMH7; TNNC1; TNNI3; Troponin I
Species:	Human
Source:	E. coli
Accession:	P63316 (M1-E161)
Gene ID:	7134
Molecular Weight:	17-20 kDa

PROPERTIES

AA Sequence	<pre> M D D I Y K A A V E Q L T E E Q K N E F K A A F D I F V L G A E D G C I S T K E L G K V M R M L G Q N P T P E E L Q E M I D E V D E D G S G T V D F D E F L V M M V R C M K D D S K G K S E E E L S D L F R M F D K N A D G Y I D L D E L K I M L Q A T G E T I T E D D I E E L M K D G D K N N D G R I D Y D E F L E F M K G V E </pre>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 10% Glycerol, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>Troponin C, represented by the TNNC1 gene, serves as the central regulatory protein orchestrating striated muscle contraction. The troponin complex, composed of Tn-I, Tn-T, and Tn-C, plays a pivotal role in this regulatory mechanism. Tn-I functions as the inhibitor of actomyosin ATPase, while Tn-T provides the binding site for tropomyosin. Of particular significance, Tn-C serves as the calcium-binding component, and upon calcium interaction, it nullifies the inhibitory effect of Tn-I on actin filaments. This intricate interplay highlights the pivotal role of Troponin C in translating calcium signals into the modulation of muscle contraction dynamics.</p>
------------	---

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA