

Cardiac troponin I/Tnni3 Protein, Mouse (His-SUMO)

Cat. No.:	HY-P71469
Synonyms:	Tnni3; Troponin I; cardiac muscle; Cardiac troponin I
Species:	Mouse
Source:	E. coli
Accession:	P48787 (2A-211G)
Gene ID:	21954
Molecular Weight:	Approximately 45 kDa. The reducing (R) protein migrates as 45 kDa in SDS-PAGE maybe due to molecular structure of protein.

PROPERTIES

AA Sequence	<p>A D E S S D A A G E P Q P A P A P V R R R S S A N Y R A Y A T E P H A K K K S K</p> <p>I S A S R K L Q L K T L M L Q I A K Q E M E R E A E E R R G E K G R V L R T R C</p> <p>Q P L E L D G L G F E E L Q D L C R Q L H A R V D K V D E E R Y D V E A K V T K</p> <p>N I T E I A D L T Q K I Y D L R G K F K R P T L R R V R I S A D A M M Q A L L G</p> <p>T R A K E S L D L R A H L K Q V K K E D I E K E N R E V G D W R K N I D A L S G</p> <p>M E G R K K K F E G</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Cardiac troponin I, also known as Tnni3, plays a pivotal role as the inhibitory subunit within the troponin complex, a critical regulator of calcium sensitivity in the actomyosin ATPase activity of striated muscle. This protein interacts with TRIM63, highlighting its involvement in intricate cellular processes. Furthermore, it exhibits binding affinity to actin and tropomyosin, integral components in the regulation of muscle contraction. The interaction with STK4/MST1 further
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suggests a network of associations that contribute to the multifaceted functions of cardiac troponin I in orchestrating the intricate machinery governing muscle physiology.

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

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