

Datasheet: 9202-0707

Description:	NATIVE HUMAN TROPONIN I (CARDIAC)
Name:	TROPONIN I (CARDIAC)
Format:	Purified
Product Type:	Purified Protein
Quantity:	10 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species	Human
Product Form	Purified protein from human heart - liquid
Buffer Solution	7M Urea 5mM EDTA 20mM Tris
Preservative Stabilisers	15mM Mercaptoethanol
Approx. Protein Concentrations	1.0 mg/ml
External Database Links	<p>UniProt: P19429 Related reagents</p> <p>Entrez Gene: 7137 TNNI3 Related reagents</p>
Synonyms	TNNC1

Product Information **Human cardiac troponin I** is the inhibitory subunit of troponin involved in conferring calcium sensitivity to muscle actomyosin ATPase activity. Mutation of the TNN13 gene can lead to familial hypotrophic cardiomyopathy 7 ([CMH7](#)), a hereditary heart condition characterized by asymmetric ventricular hypertrophy ([Kimura et al. 1997](#)). Other cardiomyopathies also occur as a result of

mutations in the TNN13 gene ([UniProt : P19429](#)).

Purity SDS PAGE: >98%

References 1. Sharma, A. *et al.* (2016) Rapid Electrical Immunoassay of the Cardiac Biomarker Troponin I through Dielectrophoretic Concentration using Imbedded Electrodes [Biosensors and Bioelectronics. Mar 26 \[Epub ahead of print\]](#).

Storage Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet documentation available at:
Material Safety Datasheet documentation #10161 available at <https://www.bio-rad-antibodies.com/uploads/MSDS/10161.pdf>

Donor material tested and found negative for HIV1 and 2 antibodies, HBsAg, HCV and syphilis.

As no test can completely guarantee this material to be free of pathogens it should be handled as potentially infectious.

Regulatory For research purposes only

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Printed on 27 Jan 2018

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