

## Datasheet: 9202-0707

<b>Description:</b>	NATIVE HUMAN TROPONIN I (CARDIAC)
<b>Name:</b>	TROPONIN I (CARDIAC)
<b>Format:</b>	Purified
<b>Product Type:</b>	Purified Protein
<b>Quantity:</b>	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](http://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.

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

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**Purity** SDS PAGE: >98%

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**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 \[Epub ahead of print\]](#).

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**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.

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**Guarantee** 18 months from date of despatch.

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**Health And Safety Information** Material Safety Datasheet documentation #10161 available at:  
10161: <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

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**Regulatory** For research purposes only

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