

Datasheet: 9202-0707

**BATCH NUMBER 154463**

<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>

**Synonyms** TNNC1

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**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. 82: 78-84.](#)

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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** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10161 available at: <https://www.bio-rad-antibodies.com/SDS/9202-0707>  
10161

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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**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M363570:200528'

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