

## Datasheet: PHP147

<b>Description:</b>	PURIFIED HUMAN SEX HORMONE BINDING GLOBULIN
<b>Name:</b>	SEX HORMONE BINDING GLOBULIN
<b>Other names:</b>	SHBG
<b>Format:</b>	Purified
<b>Product Type:</b>	Purified Protein
<b>Quantity:</b>	0.1 mg

## 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	▪			
Functional Assays			▪	
Immunoassay	▪			

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 appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified human sex hormone binding globulin - liquid
<b>Preparation</b>	Purified human sex hormone binding globulin from human serum plasma.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	Total protein concentration 1.0 mg/ml
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P04278</a>   <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">6462</a>   SHBG   <a href="#">Related reagents</a></p>

**Product Information**   **Purified Human sex hormone binding globulin**, is a ~90 kDa homodimeric glycoprotein composed of two 45 kDa subunits linked via disulphide bridges. It is an androgen transport protein which binds and regulates the free concentration of steroid hormones and is involved in steroid

signalling at the cell membrane.

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**Protein Molecular Weight**

45 kDa

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**Purity**

>90% by SDS PAGE

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**References**

1. Rosner, W. *et al.* (1999) Sex hormone-binding globulin mediates steroid hormone signal transduction at the plasma membrane. [J Steroid Biochem Mol Biol. 69 \(1-6\): 481-5.](#)
2. Kahn, S.M. *et al.* (2002) Sex hormone-binding globulin is synthesized in target cells. [J Endocrinol. 175 \(1\): 113-20.](#)
3. Zheng, X. *et al.* (2015) Analysis of Hormone-Protein Binding in Solution by Ultrafast Affinity Extraction: Interactions of Testosterone with Human Serum Albumin and Sex Hormone Binding Globulin. [Anal Chem. 87 \(22\): 11187-94.](#)

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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 #10209 available at:  
10209: <https://www.bio-rad-antibodies.com/uploads/MSDS/10209.pdf>

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

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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