

## Datasheet: PHP050A

<b>Description:</b>	RECOMBINANT HUMAN INTERFERON GAMMA
<b>Name:</b>	IFN GAMMA
<b>Other names:</b>	INTERFERON GAMMA
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	20 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	▪			0.2 - 0.4ng/well
Western Blotting	▪			1.5 - 3.0ng/lane
Functional Assays	▪			0.1 - 10ng/ml

Where this protein 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 reagent for use in their own system using appropriate positive/negative controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Recombinant protein produced in <i>E. coli</i> - lyophilized
<b>Reconstitution</b>	Reconstitute with 20ul distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
<b>Buffer Solution</b>	Sodium Phosphate
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	< 0.1 ng/ug
<b>Approx. Protein</b>	1.0 mg/ml after reconstitution

## Concentrations

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### External Database Links

**UniProt:**

[P01579](#)    [Related reagents](#)

**Entrez Gene:**

[3458](#)    IFNG    [Related reagents](#)

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**Product Information**    IFN-gamma is a lymphoid factor with anti viral activity and macrophage and NK cell stimulating properties.

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**Protein Molecular Weight**    16.7kD (143 Amino Acid Sequence)

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**Activity**    > 2 x 10<sup>7</sup> units/mg

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**Purity**    >98% by SDS PAGE and HPLC

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**ELISA**    PHP050A may be used in ELISA applications with either [AHP775](#) or [AHP775B](#).

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**Western Blotting**    PHP050A may be used under reducing or non-reducing western blotting conditions with either [AHP775](#) or [AHP775B](#).

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### References

1. Grisar, J. *et al.* (2001) Phenotypic characteristics of human monocytes undergoing transendothelial migration. [Arthritis Res. 3 \(2\): 127-32.](#)
  2. Fros, J.J. *et al.* (2010) Chikungunya virus nonstructural protein 2 inhibits type I/II interferon-stimulated JAK-STAT signaling. [J Virol. 84 \(20\): 10877-87.](#)
  3. Hara, H. *et al.* (2011) Initial in vitro investigation of the human immune response to corneal cells from genetically engineered pigs. [Invest Ophthalmol Vis Sci. 52: 5278-86.](#)
  4. Wienken, C.J. *et al.* (2010) Protein-binding assays in biological liquids using microscale thermophoresis. [Nat Commun. 1: 100.](#)
  5. Bakmiwewa, S.M. *et al.* (2016) Synergistic induction of CXCL10 by interferon-gamma and lymphotoxin-alpha in astrocytes: Possible role in cerebral malaria. [Cytokine. 78: 79-86.](#)
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**Storage**    Prior to reconstitution store at -20°C.

Following reconstitution store at -20°C.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. 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**    Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.

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**Health And Safety Information** Material Safety Datasheet documentation #10527 available at:  
10527: <https://www.bio-rad-antibodies.com/uploads/MSDS/10527.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Useful Reagents

[RABBIT ANTI HUMAN INTERFERON GAMMA \(AHP775\)](#)

[RABBIT ANTI HUMAN INTERFERON GAMMA:Biotin \(AHP775B\)](#)

**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://www.bio-rad-antibodies.com/datasheets)  
'M362339:200501'

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