

## Datasheet: PHP050A

**BATCH NUMBER 173114**

<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>Source</b>	E.coli
<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 Concentrations</b>	1.0 mg/ml after reconstitution
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P01579</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">3458</a>    IFNG    <a href="#">Related reagents</a></p>
<b>Product Information</b>	IFN-gamma is a lymphoid factor with anti viral activity and macrophage and NK cell stimulating properties.
<b>Protein Molecular Weight</b>	16.7kD (143 Amino Acid Sequence)
<b>Activity</b>	> 2 x 10 <sup>7</sup> units/mg
<b>Purity</b>	>98% by SDS PAGE and HPLC
<b>ELISA</b>	PHP050A may be used in ELISA applications with either <a href="#">AHP775</a> or <a href="#">AHP775B</a> .
<b>Western Blotting</b>	PHP050A may be used under reducing or non-reducing western blotting conditions with either <a href="#">AHP775</a> or <a href="#">AHP775B</a> .
<b>References</b>	<ol style="list-style-type: none"> <li>1. Grisar, J. <i>et al.</i> (2001) Phenotypic characteristics of human monocytes undergoing transendothelial migration. <a href="#">Arthritis Res. 3 (2): 127-32.</a></li> <li>2. Fros, J.J. <i>et al.</i> (2010) Chikungunya virus nonstructural protein 2 inhibits type I/II interferon-stimulated JAK-STAT signaling. <a href="#">J Virol. 84 (20): 10877-87.</a></li> <li>3. Hara, H. <i>et al.</i> (2011) Initial in vitro investigation of the human immune response to corneal cells from genetically engineered pigs. <a href="#">Invest Ophthalmol Vis Sci. 52: 5278-86.</a></li> <li>4. Wienken, C.J. <i>et al.</i> (2010) Protein-binding assays in biological liquids using microscale thermophoresis. <a href="#">Nat Commun. 1: 100.</a></li> <li>5. Bakmiwewa, S.M. <i>et al.</i> (2016) Synergistic induction of CXCL10 by interferon-gamma and lymphotoxin-alpha in astrocytes: Possible role in cerebral malaria. <a href="#">Cytokine. 78: 79-86.</a></li> <li>6. Mukhopadhyay, D. <i>et al.</i> (2020) Toxoplasma GRA15 limits parasite growth in IFNγ-activated fibroblasts through TRAF ubiquitin ligases. <a href="#">EMBO J. 39 (10): e103758.</a></li> <li>7. Krishnamurthy, S. <i>et al.</i> (2023) CRISPR Screens Identify <i>Toxoplasma</i> Genes That Determine Parasite Fitness in Interferon Gamma-Stimulated Human Cells. <a href="#">mBio. 14 (2): e0006023.</a></li> <li>8. Delyea, C.J. <i>et al.</i> (2024) The <i>Salmonella</i> Effector SspH2 Facilitates Spatially Selective Ubiquitination of NOD1 to Enhance Inflammatory Signaling. <a href="#">Biochemistry. Aug 27 [Epub ahead of print].</a></li> </ol>
<b>Storage</b>	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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<b>Guarantee</b>	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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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10527 available at: <a href="https://www.bio-rad-antibodies.com/SDS/PHP050A">https://www.bio-rad-antibodies.com/SDS/PHP050A</a>
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<b>Regulatory</b>	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 \(AHP775B\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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

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