

Datasheet: PHP050A

BATCH NUMBER 172684

Description:	RECOMBINANT HUMAN INTERFERON GAMMA
Name:	IFN GAMMA
Other names:	INTERFERON GAMMA
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	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.

	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.

Target Species	Human
Product Form	Recombinant protein produced in <i>E. coli</i> - lyophilized
Reconstitution	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.
Source	E.coli
Buffer Solution	Sodium Phosphate
Preservative Stabilisers	None present
Carrier Free	Yes

Endotoxin Level	< 0.1 ng/ug
Approx. Protein Concentrations	1.0 mg/ml after reconstitution
External Database Links	<p>UniProt: P01579 Related reagents</p> <p>Entrez Gene: 3458 IFNG Related reagents</p>
Product Information	IFN-gamma is a lymphoid factor with anti viral activity and macrophage and NK cell stimulating properties.
Protein Molecular Weight	16.7kD (143 Amino Acid Sequence)
Activity	> 2 x 10 ⁷ units/mg
Purity	>98% by SDS PAGE and HPLC
ELISA	PHP050A may be used in ELISA applications with either AHP775 or AHP775B .
Western Blotting	PHP050A may be used under reducing or non-reducing western blotting conditions with either AHP775 or AHP775B .
References	<ol style="list-style-type: none"> 1. Grisar, J. <i>et al.</i> (2001) Phenotypic characteristics of human monocytes undergoing transendothelial migration. Arthritis Res. 3 (2): 127-32. 2. Fros, J.J. <i>et al.</i> (2010) Chikungunya virus nonstructural protein 2 inhibits type I/II interferon-stimulated JAK-STAT signaling. J Virol. 84 (20): 10877-87. 3. Hara, H. <i>et al.</i> (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. <i>et al.</i> (2010) Protein-binding assays in biological liquids using microscale thermophoresis. Nat Commun. 1: 100. 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. Cytokine. 78: 79-86. 6. Mukhopadhyay, D. <i>et al.</i> (2020) Toxoplasma GRA15 limits parasite growth in IFNγ-activated fibroblasts through TRAF ubiquitin ligases. EMBO J. 39 (10): e103758. 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. mBio. 14 (2): e0006023. 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. Biochemistry. Aug 27 [Epub ahead of print].
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.

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: https://www.bio-rad-antibodies.com/SDS/PHP050A
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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 \(AHP775B\)](#)

Product inquiries: 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
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