

Datasheet: PHP050

BATCH NUMBER 162668

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

| | 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.

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| Target Species | Human |
| Product Form | Recombinant protein produced in <i>E. coli</i> - lyophilized. |
| Reconstitution | Reconstitute with 0.1 ml 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. |
| Buffer Solution | Sodium Phosphate |
| Preservative Stabilisers | None present |
| Carrier Free | Yes |
| Endotoxin Level | < 0.1 ng/ug |

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| Approx. Protein Concentrations | Total protein concentration 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 | PHP050 may be used in ELISA applications with either AHP775 or AHP775B . |
| Western Blotting | PHP050 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. |
| Storage | <p>Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.</p> <p>This product should be stored undiluted.</p> <p>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.</p> |
| 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. |
| Health And Safety | Material Safety Datasheet documentation #10527 available at: |

Information <https://www.bio-rad-antibodies.com/SDS/PHP05010527>

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

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

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

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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)
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