

Datasheet: PBP007A BATCH NUMBER 163730

Description:	RECOMBINANT BOVINE INTERFERON GAMMA		
Name:	IFN GAMMA		
Other names:	INTERFERON GAMMA		
Format:	Rec. Protein		
Product Type:	Recombinant Protein		
Quantity:	25 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	•			
Functional Assays	-			

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.

Target Species	Bovine
Product Form	Purified recombinant protein - lyophilized
Reconstitution	Reconstitute with 100 µl sterile PBS containing 0.1% carrier protein 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.
Preparation	Recombinant protein expressed in <i>Pichia pastoris</i> and purified by ion-exchange chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	10% Trehalose
External Database	UniProt:

P07353 Related reagents

Entrez Gene:

281237 IFNG Related reagents

Product Information

Recombinant Bovine interferon gamma, (IFNγ), known previously as macrophage activating factor, belongs to the type II interferon family and is produced by T lymphocytes and NK cells.

Native bovine interferon gamma is a 143 amino acid cytokine with potent activating, anti-viral and anti-proliferative properties. It is produced as a pro-peptide with an additional 23 amino acid N-terminal signal peptide sequence having a molecular weight of ~20 kDa.

IFNγ is predominantly secreted by activated T lymphocytes in response to specific mitogens as a result of infection and has numerous immunological regulatory functions. Properties include macrophage activation, upregulation of MHC class I and II molecules on various cells and induction of cytotoxicity.

Protein Molecular Weight	16.9 kDa
Purity	>95% by SDS PAGE analysis
ELISA	This reagent has been used as a standard in a sandwich ELISA assay in conjunction value CC330 (MCA2112) and clone CC302 (MCA1783B)

References

- 1. Floss, M.M. *et al.* (2010) Expression and Immunogenicity of the Mycobacterial Ag85B/ESAT-6 Antigens Produced in Transgenic Plants by Elastin-Like Peptide Fusion Strategy. <u>J Biomed Biotechnol.</u> 2010: 274346.
- 2. Korzekwa, A.J. *et al.* (2011) Characterization of bovine immortalized luteal endothelial cells: action of cytokines on production and content of arachidonic acid metabolites. Reprod Biol Endocrinol. 9: 27.
- 3. Pujol, J. *et al.* (2015) Generation of a soluble recombinant trimeric form of bovine CD40L and its potential use as a vaccine adjuvant in cows. <u>Vet Immunol Immunopathol.</u> 168 (1-2): 1-13.
- 4. Soria, I. *et al.* (2018) Immune Response and Partial Protection against Heterologous Foot-and-Mouth Disease Virus Induced by Dendrimer Peptides in Cattle. <u>J Immunol Res.</u> 2018: 3497401.
- 5. Hecker, Y.P. *et al.* (2019) Immune response to *Neospora caninum* live tachyzoites in prepubertal female calves. <u>Parasitol Res. 118 (10): 2945-55.</u>
- 6. Rodrigues, V. *et al.* (2017) Development of a bead-based multiplexed assay for simultaneous quantification of five bovine cytokines by flow cytometry. Cytometry A. 91 (9): 901-907.
- 7. Fiorani, F. *et al.* (2019) Delayed type hypersensitivity induced by intradermal inoculation of a *Neospora caninum*. tachyzoite antigen in previously exposed cattle. <u>Vet Immunol Immunopathol</u>. 207: 31-5.
- 8. Soria, I. *et al.* (2017) Dendrimeric peptides can confer protection against foot-and-mouth disease virus in cattle. <u>PLoS One. 12 (9): e0185184.</u>

9. Alejandra, C.K. et al. (2021) TLR activation, immune response and viral protection elicited in cattle by a commercial vaccine against Bovine Herpesvirus-1 Virology. Dec 03 [Epub ahead of print]. Storage Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Guarantee 12 months from date of despatch **Health And Safety** Material Safety Datasheet documentation #10591 available at: Information https://www.bio-rad-antibodies.com/SDS/PBP007A 10591 Regulatory For research purposes only

Related Products

Recommended Useful Reagents

MOUSE ANTI BOVINE INTERFERON GAMMA:Biotin (MCA1783B)
MOUSE ANTI BOVINE INTERFERON GAMMA (MCA2112)

North & South Tel: +1 800 265 7376
America Fax: +1 919 878 3751

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: 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 'M334877:181203'

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