

Datasheet: PBP007A

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 Links	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 with clone CC330 (MCA2112) and clone CC302 (MCA1783B)
References	 Floss, M.M. <i>et al.</i> (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. Korzekwa, A.J. <i>et al.</i> (2011) Characterization of bovine immortalized luteal endothelial cells: action of cytokines on production and content of arachidonic acid metabolites. <u>Reprod Biol Endocrinol.</u> 9: 27. Pujol, J. <i>et al.</i> (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. Soria, I. <i>et al.</i> (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.
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.
Shelf Life	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10591 available at: 10591: https://www.bio-rad-antibodies.com/uploads/MSDS/10591.pdf
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

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

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