

Datasheet: PBP011

BATCH NUMBER 164105

Description:	RECOMBINANT BOVINE GM-CSF
Name:	GM-CSF
Other names:	GRANULOCYTE MACROPHAGE COLONY STIMULATING FACTOR
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	1 ml

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
Functional Assays	▪			1/2 - 1/10

Where this protein has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the product for use in their own system using appropriate positive/negative controls.

Target Species	Bovine
Product Form	Tissue Culture Supernatant from HEK293T cells expressing recombinant bovine GM-CSF - lyophilized
Reconstitution	Reconstitute with 1.0ml 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.
Preservative Stabilisers	1% Bovine Serum Albumin
External Database Links	<p>UniProt: P11052 Related reagents</p> <p>Entrez Gene: 281095 CSF2 Related reagents</p>

Product Information **Recombinant Bovine GM-CSF** is a tissue culture supernatant containing active bovine

GM-CSF, a cytokine that stimulates the growth and differentiation of hematopoietic precursor cells from various lineages, including granulocytes, macrophages, eosinophils and erythrocytes.

This preparation has been shown to have biological activity in proliferation assays utilizing TF-1 cells. The specific concentration of GM-CSF has not been assayed.

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- References**
1. Iwan, M. *et al.* (2014) Application of *in situ* PCR for the Detection of Bovine Leukaemia Virus (BLV) Infection in Dendritic Cell cultures. [Bulletin of the Veterinary Institute in Pulawy. 58: 347-52.](#)
 2. Iwan, E. *et al.* (2018) Determination of cytokine profiles in populations of dendritic cells from cattle infected with bovine leukaemia virus. [Pol J Vet Sci. 21 \(4\): 681-90.](#)

Storage

Prior to reconstitution store at +4°C.
After reconstitution store at +4°C or at -20°C if preferred.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10219 available at: <https://www.bio-rad-antibodies.com/SDS/PBP011>
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Regulatory For research purposes only

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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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