

Datasheet: PBP016A

Description:	RECOMBINANT BOVINE INTERLEUKIN-10
Name:	IL-10
Other names:	CYTOKINE SYNTHESIS INHIBITORY FACTOR
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 100µl 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
Source	<i>Pichia pastoris</i>
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	10% Trehalose

**External Database
Links**

UniProt:

[P43480](#)

[Related reagents](#)

Entrez Gene:

[281246](#)

IL10

[Related reagents](#)

Product Information **Recombinant Bovine Interleukin-10 (IL-10)**, also known as cytokine synthesis inhibitory factor (CSIF), is a secreted anti inflammatory cytokine produced primarily by monocytes. IL-10 inhibits the synthesis of pro-inflammatory cytokines such as IFN γ , IL-2, IL-4, GM-CSF and TNF α .

This product is a purified recombinant cytokine corresponding to a 160 amino acid sequence of bovine IL-10 and is suitable for use as standard in the development of ELISA assays.

Protein Molecular Weight 18.6 kDa

Purity >95% by SDS PAGE

References

1. Stabel, J.R. *et al.* (2021) Comparative cellular immune responses in calves after infection with *Mycobacterium avium*. subsp. *paratuberculosis*., *M. avium*. subsp. *avium*., *M. kansasii*. and *M. bovis*.. [Vet Immunol Immunopathol. 237: 110268.](#)
2. Bouroutzika, E. *et al.* (2023) Melatonin Administration to Pregnant Ewes for Coccidiosis Control in Their Offspring. [Animals \(Basel\). 13 \(14\): 2381.](#)
3. Hong, S. *et al.* (2024) Impact of an Injectable Trace Mineral Supplement on the Immune Response and Outcome of *Mannheimia haemolytica* Infection in Feedlot Cattle. [Biol Trace Elem Res. Jun 10 \[Epub ahead of print\].](#)

Storage

This product is shipped at ambient temperature.
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. Avoid repeated freezing and thawing as this may denature the protein.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10591 available at: <https://www.bio-rad-antibodies.com/SDS/PBP016A>
10591

Regulatory For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE ANTI BOVINE INTERLEUKIN-10:Biotin \(MCA2111B\)](#)

[MOUSE ANTI BOVINE INTERLEUKIN-10 \(MCA2110\)](#)

[MOUSE ANTI BOVINE INTERLEUKIN-10:Low Endotoxin \(MCA2111EL\)](#)
[MOUSE ANTI BOVINE INTERFERON GAMMA \(MCA2112\)](#)

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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
'M441557:250523'

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