

Datasheet: PBP005

Description:	RECOMBINANT BOVINE TNF ALPHA
Name:	TNF ALPHA
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	20 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 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.

Target Species	Bovine
Product Form	Purified Recombinant Protein- lyophilized
Reconstitution	<p>Reconstitute with 0.5 ml distilled water.</p> <p>Further dilutions should be made in a buffer containing carrier protein.</p> <p>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.</p>
Preparation	Recombinant protein expressed in <i>Pichia pastoris</i>
Source	<i>Pichia pastoris</i>
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Endotoxin Level	< 0.06 EU/ug

**External Database
Links**

UniProt:

[Q06599](#) [Related reagents](#)

Entrez Gene:

[280943](#) TNF [Related reagents](#)

Synonyms

TNFA, TNFSF2

Product Information

Bovine Tumour Necrosis Factor alpha (TNF alpha) is produced by a range of cells, including macrophages, monocytes, T and B lymphocytes. TNF alpha is an important mediator of the bovine inflammatory response.

Bovine Tumour Necrosis Factor alpha (**PBP005**) has an ED₅₀ in the range of 10-25 ng/ml, determined by measuring the cytolytic effect of recombinant bovine TNF alpha on murine WEHI-13VAR cells in the presence of Actinomycin D.

**Protein Molecular
Weight**

17.4kD

Purity

>95% by SDS PAGE analysis

ELISA

PBP005 may be used as a standard with [MCA2334](#) or [MCA2335B](#).

References

1. Simojoki, H. *et al.* (2011) Innate immune response in experimentally induced bovine intramammary infection with *Staphylococcus simulans* and *S. epidermidis*. [Vet Res. 42: 49.](#)

Storage

Prior to reconstitution store at +4°C.
Following reconstitution store at -70°C.
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.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10302 available at:
10302: <https://www.bio-rad-antibodies.com/uploads/MSDS/10302.pdf>

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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