

Datasheet: PBP005

**BATCH NUMBER 148830**

<b>Description:</b>	RECOMBINANT BOVINE TNF ALPHA
<b>Name:</b>	TNF ALPHA
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	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](http://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.

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

**External Database  
Links**

**UniProt:**

[Q06599](#)   [Related reagents](#)

**Entrez Gene:**

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

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**Synonyms**      TNFA, TNFSF2

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**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 ED<sub>50</sub> 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.

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**Protein Molecular Weight**      17.4kD

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**Purity**                              >95% by SDS PAGE analysis

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

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**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.](#)

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**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.

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**Guarantee**                            12 months from date of despatch

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**Health And Safety Information**    Material Safety Datasheet documentation #10209 available at:  
<https://www.bio-rad-antibodies.com/SDS/PBP005>  
10209

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**Regulatory**                            For research purposes only

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