

## Datasheet: PBP005

<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>	<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>
<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
<b>External Database</b>	<b>UniProt:</b>

**Links**[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 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.

**Protein Molecular Weight**

17.4kD

**Purity**

&gt;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 #10209 available at:  
10209: <https://www.bio-rad-antibodies.com/uploads/MSDS/10209.pdf>

**Regulatory**

For research purposes only

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