

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.abdserotec.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- lyophilised

Reconstitution 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. AbD Serotec recommend that the vial is gently mixed after reconstitution.

Preparation Recombinant protein expressed in *Pichia pastoris*

Buffer Solution Phosphate buffered saline

Preservative Stabilisers None present

Endotoxin Level less than 0.7 EU/ug

External Database Links

UniProt:
[Q06599](http://www.uniprot.org/entry/Q06599) [Related reagents](#)

Entrez Gene:
[280943](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids=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.

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. <i>et al.</i> (2011) Innate immune response in experimentally induced bovine intramammary infection with <i>Staphylococcus simulans</i> and <i>S. epidermidis</i> . 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.
Shelf Life	12 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet Documentation #10209 available at: http://www.abdserotec.com/uploads/MSDS/10209.pdf
Regulatory	For research purposes only

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