

# Datasheet: PDP001

**BATCH NUMBER 147649**

<b>Description:</b>	RECOMBINANT DOG 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 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.

<b>Target Species</b>	Dog
<b>Product Form</b>	Purified recombinant protein - lyophilized
<b>Reconstitution</b>	<p>Reconstitute with 0.5 ml distilled water. 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> <p>Further dilutions should be made in a buffer containing a carrier protein.</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>	< 1.1 EU/ug

**External Database  
Links**

**UniProt:**

[P51742](#)

[Related reagents](#)

**Entrez Gene:**

[403922](#)

TNF

[Related reagents](#)

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**Synonyms**

TNFA, TNFSF2

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**Product Information**

Canine tumor necrosis factor alpha (TNF alpha) is produced by a range of cells, including macrophages and monocytes and is an important mediator of the canine inflammatory response. Recombinant dog TNF alpha has an ED<sub>50</sub> of 10 pg/ml, determined by measuring the cytolytic effect of recombinant canine TNF alpha on murine WEHI-13VAR-164 cells in the presence of actinomycin D.

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**Protein Molecular  
Weight**

17.3 kDa

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**Purity**

>95% by SDS PAGE analysis

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**References**

1. Grob, D. *et al.* (2021) Canine Angiostrongylus vasorum-Induced Early Innate Immune Reactions Based on NETs Formation and Canine Vascular Endothelial Cell Activation *In Vitro*. [Biology. 10 \(5\): 427.](#)

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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 #10302 available at:  
<https://www.bio-rad-antibodies.com/SDS/PDP001>  
10302

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**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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