

Datasheet: PDP001

BATCH NUMBER 147649

Description:	RECOMBINANT DOG 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 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.

Target Species	Dog
Product Form	Purified recombinant protein - lyophilized
Reconstitution	<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>
Preparation	Recombinant protein expressed in <i>Pichia pastoris</i>
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Endotoxin Level	< 1.1 EU/ug

**External Database
Links**

UniProt:

[P51742](#) [Related reagents](#)

Entrez Gene:

[403922](#) TNF [Related reagents](#)

Synonyms

TNFA, TNFSF2

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 ED₅₀ 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.

**Protein Molecular
Weight**

17.3 kDa

Purity

>95% by SDS PAGE analysis

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.](#)

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

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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