

Datasheet: PRP16

BATCH NUMBER 161539

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|----------------------|---------------------------|
| Description: | RECOMBINANT RAT 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 | ▪ | | | 0.2 - 0.4 ng/well |
| Western Blotting | ▪ | | | 1.5 - 3.0 ng/lane |
| 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.

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| Target Species | Rat |
| Product Form | Purified recombinant protein - lyophilized |
| Reconstitution | Reconstitute with 0.2ml 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. |
| Preparation | Recombinant rat TNF alpha purified from <i>E.coli</i> . |
| Buffer Solution | Phosphate buffered saline |
| Preservative Stabilisers | None present |
| Carrier Free | Yes |
| Endotoxin Level | < 0.1 ng/ug |

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| Approx. Protein Concentrations | Total protein concentration 0.1 mg/ml after reconstitution. |
| External Database Links | <p>UniProt: P16599 Related reagents</p> <p>Entrez Gene: 24835 Tnf Related reagents</p> |
| Synonyms | Tnfa, Tnfsf2 |
| Product Information | Recombinant rat TNF alpha was tested in a cytotoxicity assay on murine L929 cells - this batch demonstrated an ED50 of <0.05ng/ml. |
| Protein Molecular Weight | 17.3kD (157 Amino acid sequence) |
| Activity | >2 x 10 ⁷ units/mg |
| Purity | >98% by SDS PAGE and HPLC |
| ELISA | This product may be used as a standard in ELISA applications with either AAR33 or AAR33B . |
| Western Blotting | This product may be used as the positive control in Western Blotting applications with either AAR33 or AAR33B . |
| References | <ol style="list-style-type: none"> 1. Rayner, S.A. <i>et al.</i> (2000) Local bioactive tumour necrosis factor (TNF) in corneal allotransplantation. Clin Exp Immunol. 122 (1): 109-16. 2. Lee, P.T. <i>et al.</i> (2000) Role of alveolar macrophages in innate immunity in neonates: evidence for selective lipopolysaccharide binding protein production by rat neonatal alveolar macrophages. Am J Respir Cell Mol Biol. 23 (5): 652-61. 3. Dumont, A.O. <i>et al.</i> (2014) Differential Regulation of Glutamate Transporter Subtypes by Pro-Inflammatory Cytokine TNF-α in Cortical Astrocytes from a Rat Model of Amyotrophic Lateral Sclerosis. PLoS One. 9: e97649. |
| Storage | <p>Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.</p> <p>This product should be stored undiluted.</p> <p>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.</p> |
| Guarantee | Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date. |
| Health And Safety | Material Safety Datasheet documentation #10209 available at: |

Information

<https://www.bio-rad-antibodies.com/SDS/PRP16>
10209

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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