

Datasheet: PRP16

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.

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> .
Source	E.coli
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes

Endotoxin Level	< 0.1 ng/ug
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 Information Material Safety Datasheet documentation #10302 available at:
<https://www.bio-rad-antibodies.com/SDS/PRP16>
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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