



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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**Datasheet for 012-001-W31-0005****rRat TNF alpha Protein****Overview**

<b>Description:</b>	Rat Tumor Necrosis Factor alpha Recombinant Protein - 012-001-W31-0005
<b>Item No.:</b>	012-001-W31-0005
<b>Size:</b>	5 µg
<b>Applications:</b>	SDS-PAGE
<b>Origin:</b>	Rat
<b>Expressed in:</b>	E. coli

**Product Details**

<b>Background:</b>	Tumor Necrosis Factor alpha (TNF $\alpha$ ) is an inflammatory cytokine secreted by macrophages, monocytes, neutrophils, T cells, NK-cells following their stimulation by bacterial LPS. TNF $\alpha$ activates signals through two receptors, TNF-R1, which is expressed on most cell types, and TNF-R2, which is expressed mainly on immune cells. TNF $\alpha$ can have many functions including, to stimulate of phagocytosis in macrophages, to chemoattract neutrophils, to increase insulin resistance and to induce fever. Recombinant rat TNF $\alpha$ is a non-glycosylated protein, containing 157 amino acids, with a molecular weight of 17.3 kDa.
<b>Synonyms:</b>	TNFSF2, Cachectin, DIF, Necrosin, Cytotoxin, Cachexin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2
<b>Species of Origin:</b>	Rat
<b>Expressed in:</b>	E. coli
<b>Type:</b>	Recombinant Protein
<b>Low Endotoxin:</b>	Yes

**Target Details**

<b>Gene Name:</b>	Tnf
<b>Purity/Specificity:</b>	Tumor Necrosis Factor alpha purity was determined to be greater than 95% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - P16599</a></li></ul>

## Application Details

<b>Tested Applications:</b>	SDS-PAGE
<b>Application Note:</b>	Tumor Necrosis Factor alpha Recombinant Protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-Tumor Necrosis Factor alpha in immunological assays. Lyophilized in 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>Other:</b>	Endotoxin Level: Measured by kinetic LAL analysis and is typically $\leq 1$ EU/ $\mu$ g protein. Biologic Activity: The activity is determined by the cytolysis of mouse L929 cells in the presence of Actinomycin D and is typically less than 0.05 ng/mL.

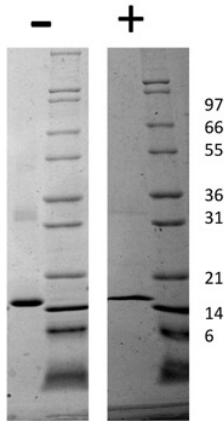
## Formulation

<b>Physical State:</b>	Lyophilized
<b>Buffer:</b>	See application note.
<b>Preservative:</b>	None
<b>Stabilizer:</b>	None
<b>Reconstitution Volume:</b>	5 $\mu$ l (5-50 $\mu$ l)
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
<b>Expiration:</b>	Expiration date is six (6) months from date of receipt.

## Images

**SDS-PAGE**

SDS-PAGE of Rat Tumor Necrosis Factor alpha Recombinant Protein. Lane 1: 1  $\mu$ g Rat TNF-alpha AF in non-reducing conditions (-). Lane 2: Molecular weight marker. Lane 3: 1  $\mu$ g Rat TNF-alpha AF in reducing conditions (+). Lane 4: Molecular weight marker. Rat TNF-alpha has a predicted MW of 17.3 kDa.

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.