



# 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

### SZABO-SCANDIC HandelsgmbH

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## Human Tumor Necrosis Factor-alpha

CLY100-111-10UG  
CLY100-111-50UG  
CLY100-111-100UG  
CLY100-111-500UG  
CLY100-111-1MG

**Description:** TNF is secreted by macrophages, monocytes, neutrophils, T-cells, NK- cells following their stimulation by bacterial LPS. Cells expressing CD4 secrete TNF-alpha while CD8 cells secrete little or no TNF-alpha. The synthesis of TNF- alpha is induced by many different stimuli including interferons, IL2, GM-CSF. Recombinant Human Tumor Necrosis Factor-alpha produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 158 amino acids and having a molecular mass of 17,500 Dalton

**Source:** *E.coli*

**Presentation:** 10 µg (CLY100-111-10UG), 50 µg (CLY100-111-50UG), 100 µg (CLY100-111-100UG), 500 µg (CLY100-111-500UG) or 1 mg (CLY100-111-1MG), sterile filtered white lyophilized (freeze-dried) powder. Human TNF-alpha is lyophilized at 1 mg/ml from 10 mM NaP, pH 7.5.

**Reconstitution:** Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

**Stability:** Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

**Purity:**

Greater than 95% as determined by:

Analysis by RP-HPLC.

Reducing and non- reducing SDS-PAGE.

**Protein Content determined by:**

UV spectroscopy at 280 nm.

Analysis by RP-HPLC calibrated against a known standard.

Quantitation on SDS-PAGE against a known standard.

**Endotoxin Level:** Endotoxin level as measured by LAL is <0.01 ng/µg or < 0.1EU/µg.

**Biological Activity:** Recombinant Tumor Necrosis Factor-alpha is fully biologically active when compared to standard. The ED<sub>50</sub> as determined by the cytolysis of mouse L929 cells in the presence of Actinomycin D is 0.4-0.6 ng/mL. This corresponds to a specific activity of 2.5 x 10<sup>6</sup> units/mg.

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**AA Sequence:** MVRSSRTPS DKPVAHVVAN PQAEGQLQWL NRRANALLAN GVELRDNQLV  
VPSEGLYLIY SQVLFKGGQC PSTHVLLTHT ISRIAVSYQT KVNLLSAIKS PCQRETPEGA EAKPWYEPIY  
LGGVFQLEKG DRLSAEINRP DYLDFAESGQ VYFGIHAL

**Laboratory Reagent For Research Use Only**

MW 07/19/19