



# 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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## Human Tumor Necrosis Factor-alpha (AF)

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

**Description:** 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, TNFR1, which is expressed on most cell types, and TNFR2, which is expressed mainly on immune cells. TNF $\alpha$  can have many functions including, to stimulate phagocytosis in macrophages, to chemoattract neutrophils, to increase insulin resistance and to induce fever. Recombinant human TNF- $\alpha$  is a non-glycosylated protein, containing 158 amino acids, with a molecular weight of 17.5 kDa.

**Source:** *E.coli*. This product is produced with no animal or human origin raw products. All processing and handling employs animal free equipment and animal free protocols.

**Presentation:** 10  $\mu$ g (CLY100-111AF-10UG), 50  $\mu$ g (CLY100-111AF-50UG), 100  $\mu$ g (CLY100-111AF-100UG), 500  $\mu$ g (CLY100-111AF-500UG) or 1 mg (CLY100-111AF-1MG), sterile filtered white lyophilized (freeze-dried) powder. Recombinant human TNF- $\alpha$  is lyophilized from a concentrated solution (1mg/mL) with 10 mM Na<sub>2</sub>PO<sub>4</sub>, pH 8.0.

**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 that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Protein Content and Purity (typically > 96%) determined by:**  
Reducing and non-reducing SDS-PAGE.

**Endotoxin Level:** Endotoxin level as measured by LAL is 0.05 EUs/ $\mu$ g.

**Biological Activity:** Recombinant Tumor Necrosis Factor-alpha (AF) 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 typically less than 0.05 ng/ml.

**AA Sequence:** MVRSSSRTPS DKPVAHVVAN PQAEGQLQWL NRRANALLAN GVLRDNQLV  
VPSEGLYLIY SQVLFKGGQC PSTHVLLTHT ISRIAVSYQT KVNLLSAIKS PCQRETPEGA EAKPWYEPIY  
LGGVVFQLEKG DRLSAEINRP DYLDFAESGQ VYFGIIL

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