

**Recombinant Human
TNF alpha (Tumor Necrosis Factor alpha)**

Catalog # (Size): HZ-1014 (10µg) HZ-1201 (100µg) HZ-1202 (1000µg)

Product Description

- Endotoxin-free
- Animal-derived product free
- Available in Bulk
- Expressed as Native Trimer Form
- Lyophilized and Carrier Free (CF)

Xeno-free TNF alpha^{HuXp} is expressed in human 293 cells and has been shown by gel filtration to be predominantly a non-covalently linked homotrimer, with a molecular mass of 51 kDa. The E. coli form is not a trimer. The cytokine is produced in a human cell expression system with serum free, chemically defined media.

Typical Specifications

Species	Human
Expression	HEK293 Cell Expressed
Activity	Typically ≤ 1 ng/mL EC ₅₀
Purity	>95%
Endotoxin	<1 EU/µg
Molecular Mass	17 kDa, non-disulfide bonded homotrimer, glycosylated
Formulation	1x PBS

Purity Confirmation

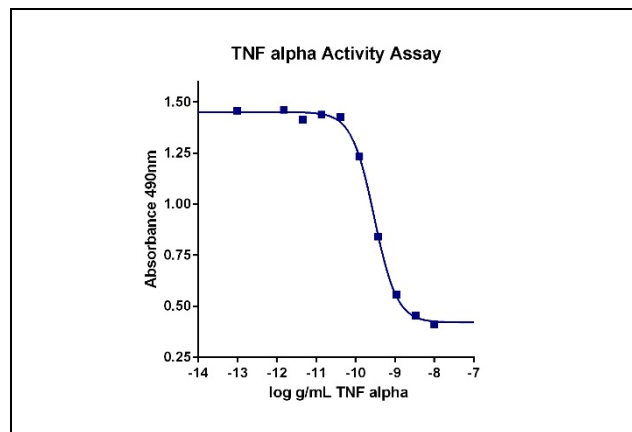
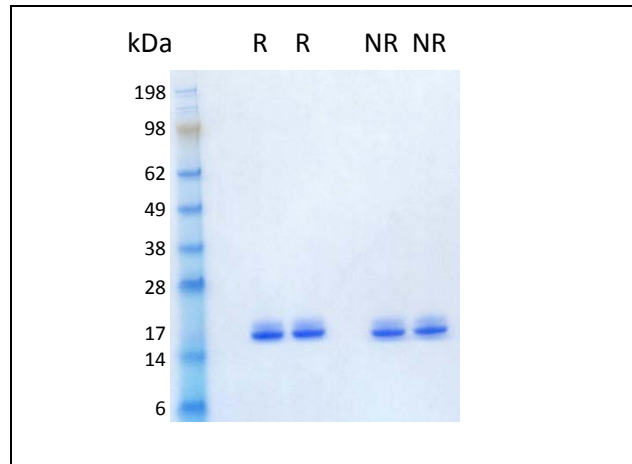
The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

Activity Assay

The activity was determined by the dose-dependent cytotoxicity of the TNF alpha sensitive cell line L-929 in the presence of Actinomycin D.



All HumaXpress® HumanKine™ are animal-component-free and Xeno-free™



Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1x PBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

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