

## HumanKine<sup>®</sup> TNF alpha (Recombinant Human)



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

### Product Description

Animal-free Recombinant Human TNF alpha 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.

**Alternative Names** Cachectin, DIF, TNF, TNF a, TNF alpha, TNFA, TNFSF2, Tumor necrosis factor

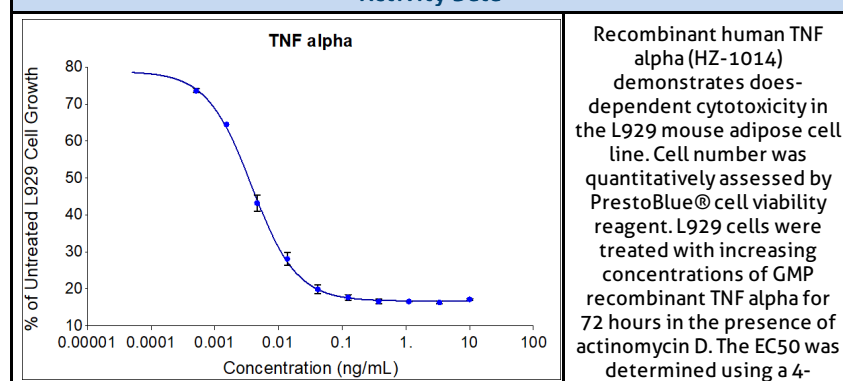
**Source** Human Embryonic Kidney cells (HEK293). HEK293-derived TNF alpha protein

**Species Reactivity** human,mouse,rat

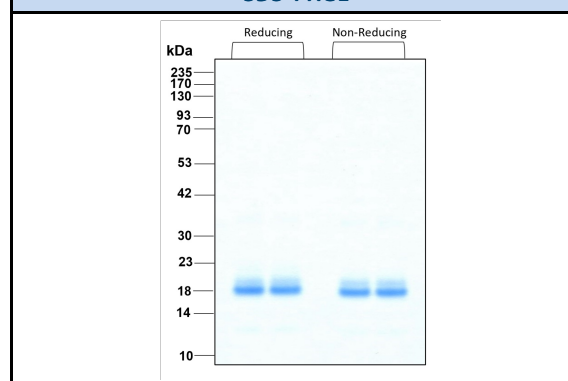
### Specifications

Test	Method	Specification
Activity	Dose-dependent cytotoxicity of the TNF alpha sensitive cell line L-929 in the presence of Actinomycin D	0.002-0.026 ng/mL EC50
Molecular Mass	SDS-PAGE	17-20 kDa, non-disulfide bonded homotrimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

### Activity Data



### SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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