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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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GFH111AF Recombinant Human TNF- α (Animal-Free)

Description

Tumor Necrosis Factor α (TNF- α) is an inflammatory cytokine secreted by macrophages, monocytes, neutrophils, T cells, and Natural Killer (NK) cells following stimulation by bacterial lipopolysaccharide (LPS). TNF- α signal activation occurs through two receptors, TNFR1 and TNFR2. TNFR1 is expressed on most cell types, unlike TNFR2, which is expressed mainly on immune cells. TNF- α functions to stimulate phagocytosis in macrophages, chemoattract neutrophils, increase insulin resistance, and induce fever.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length	158 aa
Molecular Weight	17.5 kDa
Source	E. coli
Accession Number	P01375
Purity	$\geq 95\%$ determined by reducing and non-reducing SDS-PAGE

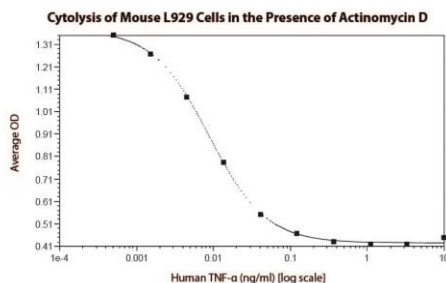
Specifications

Alternative Names	Tumor Necrosis Factor α , TNFa, TNF α , TNFSF2, cachectin, DIF, necrosin, cytotoxin, cachexin, TNF
Biological Activity	Human TNF- α (Animal-Free) is fully biologically active when compared to standard. The activity is determined by the cytolysis of mouse L929 cells in the presence of Actinomycin D and it is typically less than 2 ng/ml. This corresponds to an expected specific activity of 5.0×10^5 units/mg.
Endotoxin Level	≤ 1.00 EU/ μ g as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
AA Sequence	MVRSSTRTPS DKPVAHVVAN PQAEGQLQWL NRRANALLAN GVELRDNQLV VPSEGLYLIY SQVLFKQGC PSTHVLLTHT ISRIAVSYQT KVNLLSAIKS PCQRETPEGA EAKPWYEPIY LGGVFQLEKG DRLSAEINRP DYLDFAESGQ VYFGIIAL

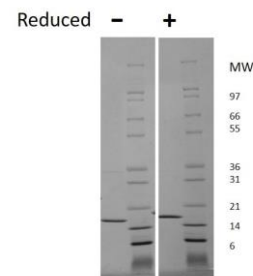
Preparation and Storage

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 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. Avoid freeze-thaw cycles

Data



Cytolysis of mouse L929 cells in the presence of Actinomycin D for Human TNF- α . Cell viability was measured to calculate the ED50, which is as expected less than 2 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μ g of protein was loaded in each lane. Human TNF- α has a predicted Mw of 17.5 kDa.