

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
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- Expressversand

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DATA SHEET

GFH111 Recombinant Human TNF-α

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.

Length Molecular Weight Source Accession Number Purity	158 aa 17.5 kDa E. coli P01375 ≥95% determined by reducing and non-reducing SDS-PAGE
Specifications	
Alternative Names	Tumor Necrosis Factor α, TNFa, TNFα, TNFSF2, cachectin, DIF, necrosin, cytotoxin, cachexin, TNF
Biological Activity	Human TNF-α 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 x 10 ⁵ units/mg.
Endotoxin Level	≤1.00 EU/µg 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	MVRSSSRTPS DKPVAHVVAN PQAEGQLQWL NRRANALLAN GVELRDNQLV VPSEGLYLIY SQVLFKGQGC PSTHVLLTHT ISRIAVSYQT KVNLLSAIKS PCQRETPEGA EAKPWYEPIY LGGVFQLEKG DRLSAEINRP DYLDFAESGQ VYFGIIAL

Preparation and Storage

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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.