

Recombinant Mouse TNF-alpha Soluble, FLAG-tagged

Cat. No. TNF-64M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of mouse tumor necrosis factor- α (TNF- α) (amino acids 77-235) is fused at the N-terminus to an 8 amino acid linker peptide and a FLAG tag.
Species	Mouse
ProteinLength	77-235 a.a.
Form	Lyophilized powder containing 50 μ g recombinant TNF- α and PBS, 1 mg/mL TNF- α after reconstitution.
Molecular Mass	Molecular weight ~20 kDa by SDS-PAGE.
Endotoxin	< 0.1 EU/ μ g purified protein (Lal test; bio > Whittaker).
Purity	$\geq$ 95% as determined by SDS-PAGE.
Characteristic	ED50: 0.02 ng/mL (WEHI 164 cells). TNF- α binds to human, mouse and rat TNF-R1 and less efficiently to TNF-R2. In the presence of cross-linking enhancer, TNF- α shows a significantly higher affinity for TNF-R2 than for TNF-R1, mimicking the characteristics of membrane bound TNF- α .
Applications	Induction of TNF-R1 and TNF-R2 mediated responses. Induction of TNF-R2 mediated responses requires addition of a secondary cross-linking anti-FLAG antibody. Inducing Apoptosis: Recombinant mouse TNF- α protein induces apoptosis in WEHI 164 and

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

other TNF- α sensitive cells. Optimal concentration varies with cell type and should be determined by testing serial dilutions on cells (For WEHI 164 cells use 0.5-1 ng/mL). The optimal dilution for a specific application should be determined by the researcher.

Usage

For in vitro research use only. Not for use in diagnostics or in humans.

Storage

Store at -20°C. Aliquot solutions to avoid repeated freeze/thaw. Lyophilized product is stable at -20°C for at least 6 months.

Reconstitution

Prepare a 1 mg/mL stock solution by dissolving the contents of the vial in 50 μ L of sterile H₂O. Further dilutions should be made with medium containing 5% fetal calf serum.

Warning

No warranties, expressed or implied, are made regarding the use of this product. Creative Biomart is not liable for any damage, personal injury, or economic loss caused by this product.

GENE INFORMATION

Gene Name

[Tnf tumor necrosis factor \[Mus musculus \]](#)

Official Symbol

TNF

Synonyms

TNF; tumor necrosis factor; TNF- α ; TNF alpha; cachectin; tumor necrosis factor alpha; tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member 2; DIF; Tnfa; TNFSF2; Tnfsf1a; TNFalpha; TNF-alpha; MGC151434;

Gene ID

[21926](#)

mRNA Refseq

[NM_013693](#)

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Protein Refseq	NP_038721
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem;
Function	cytokine activity; cytokine activity; identical protein binding; protease binding; protease binding; protein binding; transcription regulatory region DNA binding; tumor necrosis factor receptor binding; tumor necrosis factor receptor binding; tumor necrosis factor receptor binding; tumor necrosis factor receptor binding;