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32-190047: TNF-alpha, Soluble (human) (Recombinant)

Application: Functional Assay

Reactivity: Human

Alternative Name: Tumor Necrosis Factor Ligand Superfamily Member 2; Cachectin

Description

A FLAG®-tag is fused at the N-terminus of human TNF-alpha (aa 85-223). Specific Binds to human and mouse TNF-R1. Tumor necrosis factor (TNF, cachexin or cachectin and formerly known as tumor necrosis factor-alpha) is a cytokine involved in systemic inflammation and is a member of a group of cytokines that stimulate the acute phase reaction. The receptor TNF-R1 is activated by both the membrane-bound and soluble trimeric forms of TNF-alpha, whereas the receptor TNF-R2 only responds to the membrane-bound form of TNF-alpha (MultimericTNF-alpha (32-190048). Since the MultimericTNF-alpha mimics the membrane-bound form (forms oligomers higher than trimer), it is the only TNF-alpha protein that can activate the TNF-R2. For TNF-R1 activation, either "normal" TNF-alpha or Multimeric TNF-alpha can be used.

Product Info

Amount : $50 \mu g / 10 \mu g$ Purification : >=95% (SDS-PAGE)

10 µg size: Reconstitute with 100 µl sterile water. 50 µg size: Reconstitute with 50 µl sterile water.

Content: PBS containing at least 0.1% BSA should be used for further dilutions.10 μg size: 0.1 mg/ml

after reconstitution.

50 µg size: 1 mg/ml after reconstitution.

Lyophilized. Contains PBS.

Short Term Storage +4°C; Long Term Storage-20°C; After reconstitution, prepare aliquots and

store at -20°C.

Avoid freeze/thaw cycles.

Storage condition : PBS containing at least 0. 1% BSA should be used for further dilutions. Stable for at least 6

months after receipt when stored at -20°C.

Working aliquots are stable for up to 3 months when stored at -20°C.

Application Note

MW:~17kDa (SDS-PAGE)

Biological Activity: Induces cell death at a concentration range of 0.01-10ng/ml (ED50= 0.05ng/ml or 2 x 10E7 Units/mg; WEHI 164 cells).

Endotoxin Content: <0.01EU/µg purified protein (LAL test; Lonza).



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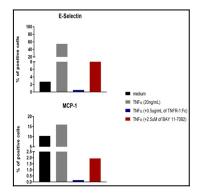


Figure 1: TNF-alpha, Soluble (human) (rec.) induces NF-kB dependent genes. Methods: Endothelial cells (HUVEC) are incubated for 1h in the presence of BAY 11-7082 and then treated with TNFalpha (20ng/ml) (red bar) or incubated with TNFalpha (20ng/ml) (in the presence or absence of TNF-R1 (human):Fc (human) (rec.) (0.5µg/ml) (blue and gray bar, respectively). TNFalpha-induced genes expression such as E-Selectin or MCP-1 are tested by flow cytometry. Picture courtesy of Giulia Vanoni (Dr. Camilla Jandus Lab, University of Lausanne).