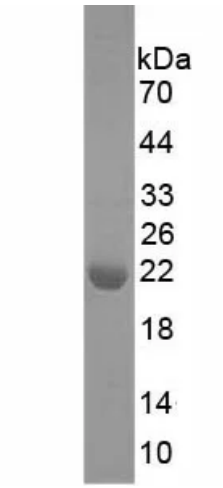
Active Tumor Necrosis Factor Beta (TNFb)

Catalog#:PER12246

概述（Summary）

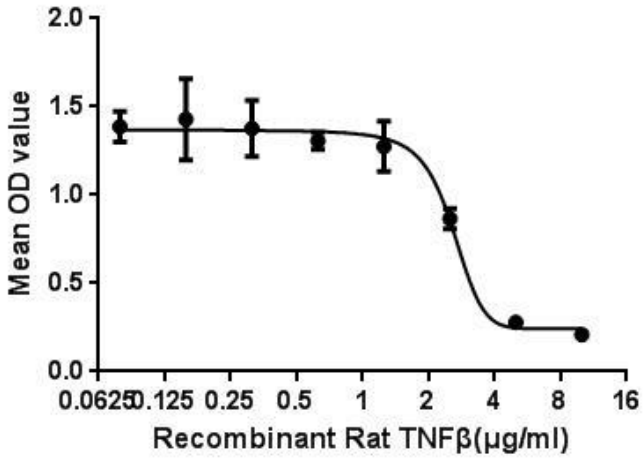
别称（Alternative Names）	LT; LTA; TNF-B; TNFSF1; Tumor Necrosis Factor Ligand Superfamily Member 1; Lymphotoxin Alpha
纯度（Purity）	Greater than 90% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Leu34-Leu202】
Accession #	Q06332
表达宿主（Host）	E.coli
种属（Species）	Rattus norvegicus (Rat)
预测分子量（Predicted MW）	22.4 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Cytokine that in its homotrimeric form binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFBR and TNFRSF14/HVEM. In its heterotrimeric form with LTB binds to TNFRSF3/LTBR. Lymphotoxin is produced by lymphocytes and is cytotoxic for a wide range of tumor cells in vitro and in vivo.

电泳图（SDS-PAGE image）

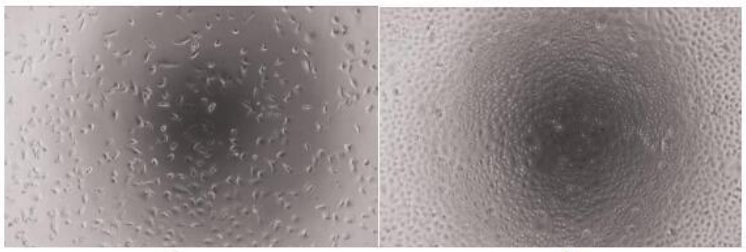


Greater than 90% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）



TNF-β, a member of the tumor necrosis factor family, is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells . The biological effects of TNF-β are very similar to TNF-α,due to the similarity of molecular structure and the receptors.As reported, TNF-α could inhibit the proliferation and induce apoptosis of A549 cells,therefore, A549 cells were seeded into triplicate wells of 96-well plates at a density of 4,000 cells/well with 5% serum standard DMEM including various concentrations of recombinant rat TNF-β. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μL of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 2 hours at 37℃. Proliferation of A549 cells after incubation with TNF-β for 48h observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant mouse TNF-β for 48h. The result was shown in Figure 2. It was obvious that TNF-β significantly inhibit cell viability of A549 cells. The ED50 is 2.5μg/ml. Figure 2. Inhibition of A549 cells proliferation after stimulated with TNF-β



A B

Figure 1. Inhibition of A549 cells proliferation after stimulated with TNF-β
(A) A549 cells cultured in DMEM, stimulated with 2.5μg/ml TNF-β for 48h;
(B) Unstimulated A549 cells cultured in DMEM for 48h.

注意事项（Note）

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