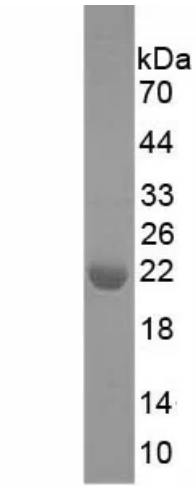
Active Tumor Necrosis Factor Beta (TNFb)

Catalog#:PEH12244

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 97% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Pro36-Leu205】
Accession #	P01374
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	22.2 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 97% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

Table 1. Effect of TNF-β on A549 cells by ELISA.

Sample (cell supernatant of A549 cells)	Concentration of IL-1β (ng/mL)
Stimulated with TNF-β (10ng/mL)	95.9
Unstimulated	4.9

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-β could inhibit the proliferation and induce necrosis of A549 cells, and the concentration of IL-1β in cell supernatant will increase after stimulation. Therefore, A549 cells were incubated in DMEM with TNF-β (10ng/mL) for 8h, 24h, 48h, 72h, then cells were observed by inverted microscope and IL-1β was detected in the cell supernatant by ELISA . Cell necrosis after incubation with TNF-β(10ng/mL) for 72h was shown in Figure 1. The production of IL-1β after incubation with TNF-β (10ng/mL) for 8h is shown in Table 1.



A B

Figure 1. Effect of TNF-β on A549 cells.

(A) A549 cells cultured in DMEM, stimulated with 10ng/mL TNF-β for 72h;

(B) A549 cells cultured in DMEM for 72h.

注意事项（Note）

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