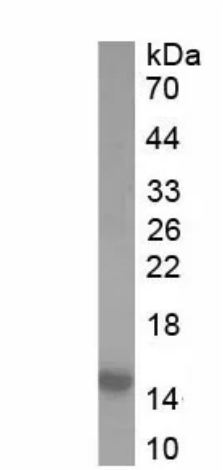
Active Transforming Growth Factor Beta 1 (TGFb1)

Catalog#:PEV12214

概述（Summary）

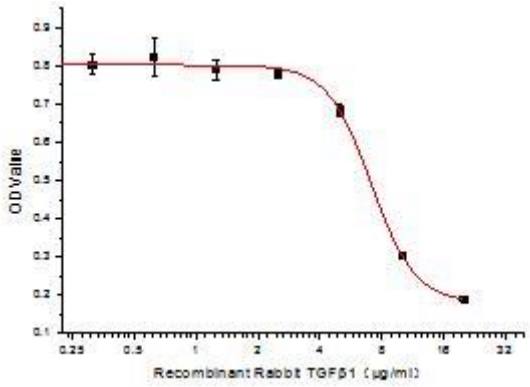
别称（Alternative Names）	TGF-B1; CED; DPD1; LAP; Camurati-Engelmann Disease; Latency-associated peptide
纯度（Purity）	Greater than 97% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Phe1-Glu99】
Accession #	Q4LG86
表达宿主（Host）	E.coli
种属（Species）	Oryctolagus cuniculus (Rabbit)
预测分子量（Predicted MW）	14.9 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.

电泳图（SDS-PAGE image）



Greater than 97% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）



Transforming growth factor beta 1 or TGF-β1 is a polypeptide member of the transforming growth factor beta superfamily of cytokines. It is a secreted protein that performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation, and apoptosis.To test the effect of TGF-β1 on cell apoptosis, HepG2 cells were seeded into 96-well plates at a density of 4,000 cells/well with 5% serum standard DMEM including various concentrations of recombinant rabbit TGF-β1. 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 1-2 hours at 37 ℃. Apoptosis of HepG2 cells after incubation with TGF-β1 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 rabbit TGF-β1 for 48h. The result was shown in Figure 2. It was obvious thatTGF-β1 significantly inhibit cell viability of HepG2 cells. The ED50 is 7.0 μg/ml. Figure 2. Inhibition of HepG2 cells proliferation after stimulated with TGF-β1.



A B

Figure 1. Inhibition of HepG2 cells proliferation after stimulated with TGF-β1
(A) HepG2 cells cultured in DMEM, stimulated with 10μg/ml TGF-β1 for 48h;
(B) Unstimulated HepG2 cells cultured in DMEM for 48h.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.