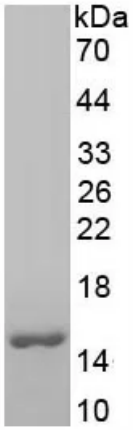
Active Interleukin 15 (IL15)

Catalog#:PEV12099

概述（Summary）

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）	【Thr49-Ser162】
Accession #	Q95253
表达宿主（Host）	E.coli
种属（Species）	Sus scrofa; Porcine (Pig)
预测分子量（Predicted MW）	16.8 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 stimulates the proliferation of T-lymphocytes. Stimulation by IL15 requires interaction of IL15 with components of the IL2 receptor, including IL2RB and probably IL2RG but not IL2RA. In neutrophils, stimulates phagocytosis probably by signaling through the IL15 receptor, composed of the subunits IL15RA, IL2RB and IL2RG, which results in kinase SYK activation.

电泳图（SDS-PAGE image）



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

活性图（Bioactivity image）

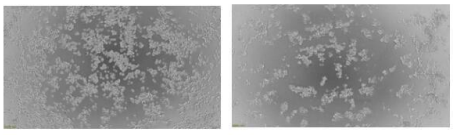


Figure 1. Cell proliferation of MO7e cells after stimulated with rpIL15
(A) MO7e cells cultured in RPMI-1640 , stimulated with 0.6 ug/ml rpIL15 for 72h;
(B) Unstimulated MO7e cells cultured in RPMI-1640 for 72h.

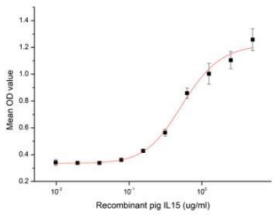


Figure 2. The dose-effect curve of rpIL15 on MO7e cells

Interleukin 15 (IL15) is a widely expressed cytokine that is structurally and functionally related to IL2, which plays an important role in many immunological diseases. IL15 also regulates T and natural killer (NK) cell activation and proliferation. The activity of recombinant pig IL15 was measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. MO7e cells were seeded into triplicate wells of 96-well plates at a density of 30,000 cells/well in RPMI-1640 with the addition of various concentrations of rpIL15. After incubated for 72h, 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 1-4 hours at 37 °C. Cell proliferation of MO7e cells after incubation with rpIL15 for 72h observed by inverted microscope was shown in Figure 1. The dose-effect curve of rpIL15 was shown in Figure 2. It was obvious that rpIL15 significantly promoted cell proliferation of MO7e cells .The EC50 for this effect is typically 0.55 ug/ml.

注意事项（Note）

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