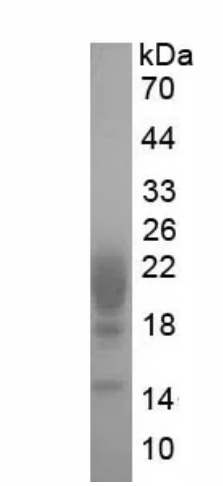
Active Interleukin 5 (IL5)

Catalog#:PHM12135

概述（Summary）

别称（Alternative Names）	E-CSF; ESGF; EDF; TRF; Colony-Stimulating Factor,Eosinophil; T-Cell replacing Factor; B Cell Differentiation Factor I; Eosinophil Differentiation Factor
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Ala20-Gly133】
Accession #	P04401
表达宿主（Host）	293F
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	14.8 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）	Factor that induces terminal differentiation of late-developing B-cells to immunoglobulin secreting cells.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

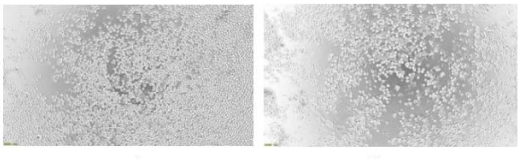


Figure 1. Cell proliferation of TF-1 cells after stimulated with recombinant mouse IL-5 .
(A) TF-1 cells cultured in RPMI-1640, stimulated with 10 ng/ml rmIL-5 for 72h;
(B) Unstimulated TF-1 cells cultured in RPMI-1640 for 72h.

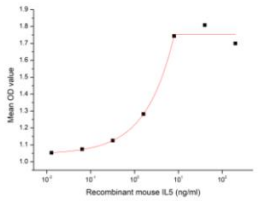


Figure 2. The dose-effect curve of recombinant mouse IL-5 on TF-1 cells

Interleukin-5 (IL-5), a secreted glycoprotein, is a member of the hematopoietic family. Interleukin 5 has been shown to stimulate the proliferation of TF-1 cells. To test this effect, TF-1 cells were seeded into triplicate wells of 96-well plates at a density of 2 x 104 cells/well and incubated for 72h in the presence or absence of various concentrations of recombinant mouse IL-5 at 37 ℃. The growth of 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 measure the absorbance at 450 nm using a microplate reader after incubating the plate for 1-4 hours at 37 ℃ . Cell proliferation of TF-1 cells after incubation with IL-5 for 72h observed by inverted microscope was shown in Figure 1. The dose-effect curve of recombinant mouse IL-5 was shown in Figure 2. It was obvious that it significantly promoted cell proliferation of TF-1 cells. The ED50 for this effect is typically 2.9 ng/ml.

注意事项（Note）

For Research Use Only , Not for Diagnostic Use.