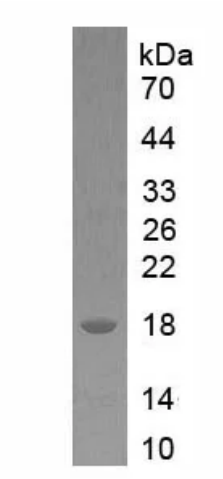
Active Interleukin 9 (IL9)

Catalog#:PEH12152

概述（Summary）

别称（Alternative Names）	HP40; P40; TCGFIII; TCGF3; T Cell Growth Factor III; P40 T-Cell And Mast Cell Growth Factor; P40 Cytokine; Homolog Of Mouse T Cell And Mast Cell Growth Factor 40
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）	【Gln19-Ile144】
Accession #	P15248
表达宿主（Host）	E.coli
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	17.8 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）	Supports IL-2 independent and IL-4 independent growth of helper T-cells.

电泳图（SDS-PAGE image）



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

活性图（Bioactivity image）

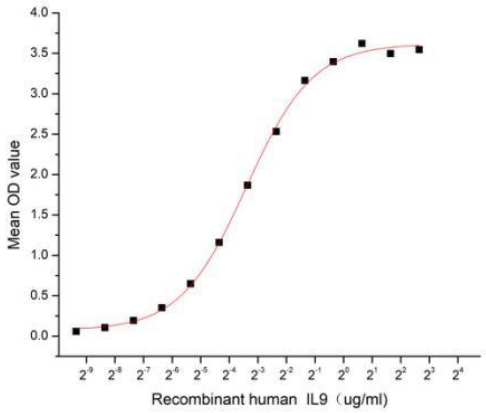


Figure 1. The binding activity of recombinant human IL-9 and recombinant mouse S100A6

Interleukin-9 (IL-9), also known as P40 and MEA (mast cell growth-enhancing activity), is a 30-40 kDa protein which was originally identified in mice as a T cell growth factor and is a member of the common γ-chain-receptor cytokine family, with other members including IL-2, IL-4, IL-7, IL-15 and IL-21. IL-9 is produced predominantly by helper T cells such as Th2 and Th9 cells. It normally functions through the activation of a JAK/STAT pathway and plays a critical role in immunity and the pathogenesis of cancer. S100 Calcium Binding Protein A6 (S100A6) is a high affinity receptor for IL-9. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human IL-9 and recombinant mouse S100A6. Briefly, IL-9 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to S100A6-coated microtiter wells and incubated for 1h at 37℃. Wells were washed with PBST and incubated for 1h with anti-IL9 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37℃, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37℃. Finally, add 50 µL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human IL-9 and recombinant mouse S100A6 was shown in Figure 1, the EC50 for this effect is 0.09 ug/mL.

注意事项（Note）

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