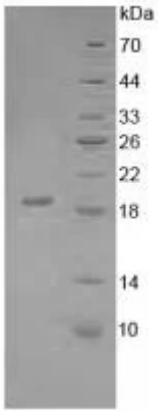
Active Interleukin 18 (IL18)

Catalog#:PEM12104

概述（Summary）

别称（Alternative Names）	IGIF; IL-1g; IL1F4; IL1-F4; Interferon-Gamma-Inducing Factor; Interleukin-1 Family Member 4; Iboctadekin; Interleukin-1 Gamma
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）	【Asn36-Ser192】
Accession #	P70380
表达宿主（Host）	E.coli
种属（Species）	Mus musculus (Mouse)
预测分子量（Predicted MW）	19.4 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 ddH_2O to a concentration less than or equal to 0.1mg/mL. Do not vortex.
背景介绍（References）	A proinflammatory cytokine primarily involved in polarized T-helper 1 (Th1) cell and natural killer (NK) cell immune responses. Upon binding to IL18R1 and IL18RAP, forms a signaling ternary complex which activates NF-kappa-B, triggering synthesis of inflammatory mediators. Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells and natural killer (NK) cells.

电泳图（SDS-PAGE image）



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

活性图（Bioactivity image）

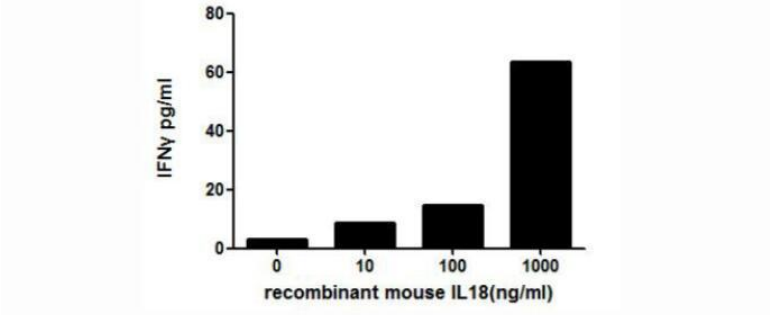


Figure 1. IFNγ concentration in the cell supernatant of murine spleen cells up-regulated by IL18

IL18 (interleukin 18) is a cytokine that shares similarities in structure with IL1, and is produced by macrophages and other cells. IL18 has been reported to stimulate T cells proliferation and NK cell activity, besides, murine IL18 has been found to enchance the production of INFγ in spleen cells in vitro. Thus, a stimulation assay was conducted to detect the activity of IL18 using murine spleen cells. Briefly, murine spleen cells were seeded into wells of 6-well plates at a density of 2×106 cells/mL in RPMI-1640 with the addition of various concentrations of IL18. After incubation for 48 hours, the concentration of INFγ in the cell supernatant was detected using an ELISA kit. INFγ levels in the cell supernatant of spleen cells increased significantly after stimulated with IL18, the data was shown in Figure 1.

注意事项（Note）

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