

Rat IL-4 Recombinant Protein

Catalog Number: 14-8040

Also Known As: Interleukin-4, IL4

RUO: For Research Use Only

Product Information

Contents: Rat IL-4 Recombinant Protein

 Catalog Number: 14-8040

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: *E. coli*

Purity: Greater than 98%, as determined by SDS-PAGE


Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: Measured by ConA activated rat splenocyte proliferation assay. The ED₅₀ is 1.5 ng/ml, corresponding to a specific activity of 6.6 x 10⁶ Units/mg.

Formulation: Sterile liquid; phosphate buffered saline, pH 7.2, 1.0% BSA. 0.22 µm filtered.

 Temperature Limitation: Store at less than or equal to -70°C.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

Description

The rat IL-4 is an ~14 kDa factor also known as BCDF, BCGF-1 and BSF-1. IL-4 is secreted by activated Th2 and natural killer T cells and to a lesser extent by Th1 and mast cells. IL-4 is species-specific and promotes proliferation and differentiation of B cells. IL-4, in conjunction with other signals such as CD40, induces Ig isotype switching of B cells and upregulation of surface MHC class II and CD23.

Applications Reported

Recombinant rat IL-4 is biologically active and can promote proliferation of rat B lymphocytes in culture.

Applications Tested

This recombinant rat IL-4 has been tested in stimulation of proliferation of ConA activated rat spleen cells. The ED₅₀ measured in this assay is typically less than 1.5 ng/ml corresponding to a specific activity of greater than 6.6 x 10⁶ Units/mg.

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Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com