

# Recombinant Rat Interleukin-4

Catalog No: #AP60229

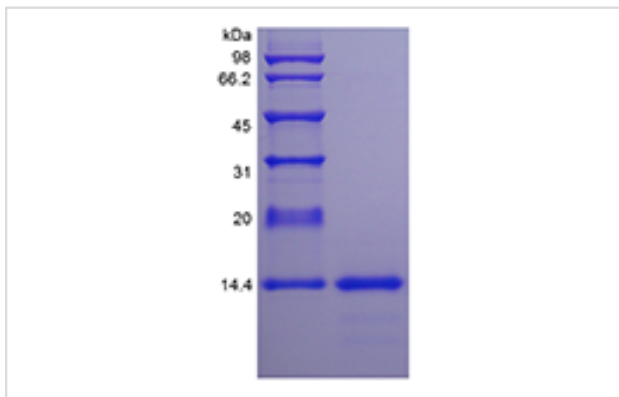
Package Size: #AP60229-1 5ug #AP60229-2 100ug #AP60229-3 500ug

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## Description

Product Name	Recombinant Rat Interleukin-4
Host Species	Escherichia coli.
Purification	> 95 % by SDS-PAGE and HPLC analyses.
Other Names	B-cell IGG Differentiation Factor, B-cell Growth Gactor 1, BSF-1, Lymphocyte Stimulatory Factor 1
Calculated MW	Approximately 14.0 kDa, a single non-glycosylated polypeptide chain containing 125 amino acids.
Target Sequence	HGCNDSPLRE IINTLNQVTE KGTPCTEMFV PDVLTATRNT TENELICRAS RVLRFYFPR DVPPCLKNKS GVLGELRKLC RGVSGLSLR SCTVNESTLT TLKDFLES�K SILRGKYLQS CTSMS
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4, 5% trehalose.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> <li>-□ A minimum of 12 months from date of receipt, when stored at &amp;le;-20 °C as supplied.</li> <li>-□ 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>-□ 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## Images



## Background

Interleukin-4 (IL-4) is a pleiotropic cytokine that induces differentiation of naive helper T cells (Th0 cells) to Th2 cells and produced by mast cells, activated T cells and bone marrow stromal cells. It has many biological roles, including the stimulation of activated B-cell and T-cell proliferation, and the differentiation of CD4+ T-cells into Th2 cells. IL-4 can enhance both secretion and cell surface expression of IgE and IgG1 and also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes. The rat IL-4 shares about 40 % ~ 45 % a.a. sequence identity with human, mouse, rhesus macaque IL-4 and they are species-specific in their activities.

**Note:** This product is for in vitro research use only and is not intended for use in humans or animals.