

Recombinant Rat Interleukin-4

Catalog No: #AP60229

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

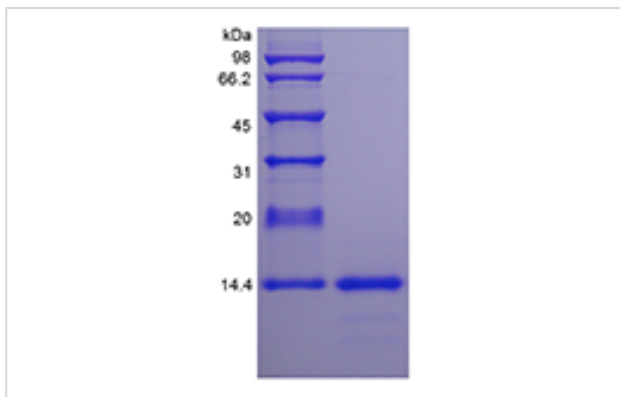
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Description

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
Uniprot	P20096
GeneID	287287
Calculated MW	Approximately 14.0 kDa, a single non-glycosylated polypeptide chain containing 125 amino acids.
Target Sequence	HGCNDSPLRE IINTLNQVTE KGTPCTEMFV PDVLTATRNT TENELICRAS RVLRFKYFPR DVPPCLKNKS GVLGELRKLC RGVSGLSLR SCTVNESTLT TLKDFLESLK 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.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

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