



Rat IL4 peptide (DAG335)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant Rat IL-4 is a single, non-glycosylated polypeptide chain containing 126 amino acids and having a molecular weight of 14,105 Da. The sequence of the first five N-terminal amino acids was determined to be Met-His-Gly-Cys-Asn. Contains less than 1% d
Antigen Description	Interleukin-4, abbreviated IL-4, is a cytokine that induces differentiation of naive helper T cells (Th0 cells) to Th2 cells. Upon activation by IL-4, Th2 cells subsequently produce additional IL-4. The cell that initially produces IL-4, thus inducing Th0 differentiation, has not been identified, but recent studies suggest that basophils may be the effector cell. It is closely related and has functions similar to Interleukin 13.
Species	Rat
Conjugate	Unconjugated
Applications	The ED ₅₀ is determined by dose-dependent proliferation of Con A activated rat spleen cells and is 1.5 ng/ml, corresponding to a specific activity of 6.6 x 10 ⁵ IU/mg. Each laboratory should determine an optimum working titer for use in its particular application.
Format	Purified, Lyophilized; Reconstitute using sterile deionized water to a concentration of 100 µg/ml. Further dilutions can be made in other aqueous buffers.
Concentration	1 mg/ml (OD _{280nm} , E _{0.1%} = 0.2) (prior to lyophilization)
Buffer	Water containing no additives
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Participates in at least several B-cell activation processes as well as of other cell types. It is a costimulator of DNA-synthesis. It induces the expression of class II MHC molecules on resting B-cells. It enhances both secretion and cell surface expression of IgE and IgG1. It also regulates the expression of the low affinity Fc receptor for IgE (CD23) on both lymphocytes and monocytes.
Keywords	IL4; interleukin 4; interleukin-4; B cell growth factor 1; B_cell stimulatory factor 1; BCGF 1; BCGF1; BSF1; IL 4; lymphocyte stimulatory factor 1; MGC79402; binetrakin; pitrakinra; IL-4; BSF-1; BCGF-1;

GENE INFORMATION

Entrez Gene ID [3565](#)

UniProt ID [D4HNR6](#)