



## Rat IL4 peptide (DAG335)

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

### PRODUCT INFORMATION

<b>Product Overview</b>	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
<b>Antigen Description</b>	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.
<b>Species</b>	Rat
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	The ED <sub>50</sub> as determined by dose-dependent proliferation of Con A activated rat spleen cells is and is 1.5 ng/ml, corresponding to a specific activity of 6.6 x 10 <sup>5</sup> IU/mg. Each laboratory should determine an optimum working titer for use in its particular application.
<b>Format</b>	Purified, Lyophilized; Reconstitute using sterile deionized water to a concentration 100 µg/ml. Further dilutions can be made in other aqueous buffers.
<b>Concentration</b>	1 mg/ml (OD <sub>280nm</sub> , E <sub>0.1%</sub> = 0.2) (prior to lyophilization)
<b>Buffer</b>	Water containing no additives
<b>Preservative</b>	None
<b>Storage</b>	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](#)