

## 32-20340: Recombinant Rat IL-4(Discontinued)

**Reactivity :** Human, Mouse, Rat  
**Alternative Name :** BCGF, BCDF, B cell stimulating factor (BSF-1)

### Description

**Source:** *E.coli* IL-4 is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression. Produced by mast cells, T cells and bone marrow stromal cells, IL-4 regulates the differentiation of naive CD4+ T cells into helper Th2 cells, characterized by their cytokine-secretion profile that includes secretion of IL-4, IL-5, IL-6, IL-10, and IL-13, which favor a humoral immune response. Another dominant function of IL-4 is the regulation of immunoglobulin class switching to the IgG1 and IgE isotypes. Excessive IL-4 production by Th2 cells has been associated with elevated IgE production and allergy. Recombinant Rat IL-4 is a 14.0 kDa globular protein containing 126 amino acid residues.

### Product Info

**Amount :** 5 µg / 20 µg  
**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.  
**Content :** This recombinant protein is supplied in lyophilized form.  
**Amino Acid :** MHGCNDSPLR EIINTLNQVT EKGTPCTEMF VPDVLTATRN TTENELICRA SRVLRKFYFP RDVPPCLKNK  
SGVLGELRKL CRGVSGLNLS RSCTVNESTL TTLKDFLESL KSILRGKYLQ SCTSMS

### Application Note

Determined by its ability to stimulate proliferation of TF-1 cells. The expected ED<sub>50</sub> is 200-400 ng/ml.