

**DATASHEET**  
Version 20181206**IL-4, His, Rat****Cat. No.:** Z03206-5**Size:** 5.0 ug**Synonyms:** BSF-1, Lymphocyte stimulatory factor 1**Description:**

Interleukin-4 (IL-4), also known as BSF-1 and Lymphocyte stimulatory factor 1, is a secreted cytokine belonging to the IL-4/IL-13 family. It is produced by mast cells, T cells and bone marrow stromal cells. IL-4 signals through two receptor complexes: the IL4R $\alpha$ /common  $\gamma$  chain and the IL4R $\alpha$ -IL-13 R $\alpha$ 1 receptor complex. IL-4 regulates T cell and B cell proliferation, survival and gene expression. IL-4 also induces IgG and IgE class switching, and the upregulation of MHC-II production.

**Amino Acid Sequence:**

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00001 HGCNDSPLRE IINTLNQVTE KGTPTCTEMFV PDVLTATRNT
00041 TENELICRAS RVLRFYFPR DVPPCLKNKS GVLGELRKLC
00081 RGVSGLSLR SCTVNESTLT TLKDFLESLEK SILRGKYLQS
00121 CTSMHHHHH H
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**Source:** CHO**Species:** Rat**Biological Activity:** ED<sub>50</sub> < 0.2  $\mu$ g/ml, measured in a proliferation assay using C6 cells.**Molecular Weight:** 18-22 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**Endotoxin Level:** < 0.2 EU/ $\mu$ g, determined by LAL method.**Storage:** Lyophilized recombinant rat Interleukin-4 (IL-4), His remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rat Interleukin-4 (IL-4), His should be stable up to 1 week at 4°C or up to 2 months at -20°C.