

IL-4, His, Rat

Cat. No.: Z03206-25

Size: 25.0 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 α /common γ chain and the IL4R α -IL-13 R α 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 KGTPTCEMFV PDVLTATRNT
00041 TENELICRAS RVLKRFYFPR DVPPCLKNKS GVLGELRRLKLC
00081 RGVSGLNLSLR SCTVNESTLT TLKDFLESLEK SILRGKYLQS
00121 CTSMHHHHH H
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Source: CHO

Species: Rat

Biological Activity: ED₅₀ < 0.2 μ 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 ddH₂O or PBS at 100 μ g/ml.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/ μ 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.