## 32-7937: Recombinant Human Interleukin-4/IL-4 (Human Cells)(Discontinued)

## Gene: IL4

Gene ID: 3565
Uniprot ID : P05112

## Description

Source: Human Cells.
MW : 14.97 kD .
Recombinant Human Interleukin-4 is produced by our Mammalian expression system and the target gene encoding His25Ser153 is expressed. Interleukin-4 (IL-4) is a pleiotropic cytokine that regulates diverse T and B cell responses including cell proliferation, survival and gene expression. IL-4 is 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 $\mathrm{IL}-4$ is the regulation of immunoglobulin class switching to the $\operatorname{IgG} 1$ and $\operatorname{lgE}$ isotypes. Excessive IL-4 production by Th2 cells has been associated with elevated $\lg E$ production and allergic response.

## Product Info

Amount: $\quad 4$ (Human Cells) / $50 \mu \mathrm{~g}$
Content: Lyophilized from a $0.2 \mu \mathrm{~m}$ filtered solution of $20 \mathrm{mM} \mathrm{PB}, 150 \mathrm{mM} \mathrm{NaCl}, \mathrm{pH} 7.4$.
Lyophilized protein should be stored at $-20^{\circ} \mathrm{C}$, though stable at room temperature for 3 weeks.

## Storage condition :

Reconstituted protein solution can be stored at $4-7^{\circ} \mathrm{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $-20^{\circ} \mathrm{C}$ for 3 months.
Amino Acid: HKCDITLQEIIKTLNSLTEQKTLCTELTVTDIFAASKNTTEKETFCRAATVLRQFYSHHEKDTRCLGAT AQQFHRHKQLIRFLKRLDRNLWGLAGLNSCPVKEANQSTLENFLERLKTIMREKYSKCSS

## Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than $100 \mathrm{~A} \mu \mathrm{~g} / \mathrm{ml}$. Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Endotoxin : Less than $0.1 \mathrm{ng} / \hat{A} \mu \mathrm{~g}(1 \mathrm{IEU} / \hat{A} \mu \mathrm{~g})$ as determined by LAL test.

