

Active Recombinant Bovine IL-4

Cat. No. IL4-18B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Bovine IL-4 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Description	Interleukin-4 (IL-4) induces differentiation of naive helper T cells (Th0 cells) to Th2 cells. Upon activation by IL-4, Th2 cells subsequently produce additional IL-4. IL-4 has many biological roles, including the stimulation of activated B-cell and T-cell proliferation, and the differentiation of CD4+ T-cells into Th2 cells. It is a key regulator in humoral and adaptive immunity. IL-4 induces B-cell class switching to IgE, and up-regulates MHC class II production. Overproduction of IL-4 is associated with allergies.
Source	Yeast
Species	Bovine
Form	Lyophilized
Bio-activity	The biological activity of recombinant bovine IL-4 was measured in a cell proliferation assay using the human TF-1 cell line. The ED50 for this effect is typically 1.5 - 2 ng/mL.
Molecular Mass	12.6 kDa
AA Sequence	GHKCDIT LAEIIKTLNI LTTRKNSCME LPVADVFAAP KNTTEKETFC RVGIELRRIY RSHTCLNKFL GGLDRNLNSL ASKTCSVNEA KTSTSTLKDL LERLKTIMKE KYSC
Applications	The Bovine IL-4 protein can be used in cell culture, as an IL-4 ELISA Standard, and as

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a Western Blot Control.

Storage

-20 C

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