Recombinant Zebrafish il4 protein

Cat. No. il4-22Z **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Zebrafish il4 was expressed in Yeast.
Species	Zebrafish
Source	Yeast
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.
Form	Lyophilized without carrier protein.
Molecular Mass	12.4 kDa (calculated)
AA Sequence	SKLKIDEILL MEIIQSVNGI LNGKGEKMDL DQFIPDIYET GHYSKKTLCQ AGMALKGKIP SRSHLQRQLN AYAAYTGTGN CSVSTSGECT MKEFLEKTKA CCHYLYSAQR T (111)
Purity	>95% as visualized by SDS-PAGE analysis.
Applications	The zebrafish IL-4 protein can be used in cell culture, as an IL-4 ELISA Standard, and as a Western Blot Control.

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Storage	Stable for up to twelve months from date of receipt at -20 centigrade. Stable for at least 3 months when stored in working aliquots with a carrier protein at -20 centigrade. Avoid repeated freeze/thaw cycles.
Reconstitution	Reconstitute with sterile phosphate-buffered saline containing at least 0.1% carrier protein.

GENE INFORMATION

Gene Name	il4 interleukin 4 [Danio rerio]
Official Symbol	il4
Synonyms	il-4; il4/13b; interleukin 4/13B
Gene ID	100188894
mRNA Refseq	NM_001170740
Protein Refseq	NP_001164211
Chromosome Location	chromosome: 14
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Intestinal immune network for IgA production, organism-specific biosystem; Intestinal immune network for IgA production, conserved biosystem
Function	growth factor activity; interleukin-4 receptor binding

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