

## **Bioworld Technology, Inc.**

## Recombinant Murine Interleukin-4 (rMuIL-4)

Catalog Number: PR2025 Source:Es	escherichia col	li. Quantity:5µg/20µg/1.0mg
Description	A	AA Sequence:
Interleukin-4 is a pleiotropic cytokine that regulates	s diverse M	I H I H G C D K N H L R E I I G I L N E V T G E G T P C
T and B cell responses including cell proliferation,	, survival T	E M D V P N V L T A T K N T T E S E L V C R A S K V
and gene expression. Produced by mast cells, T of	cells and L	R I F Y L K H G K T P C L K K N S S V L M E L Q R L
bone marrow stromal cells, IL-4 regulates the differ	rentiation F	R A F R C L D S S I S C T M N E S K S T S L K D F L E
of naive CD4+ T cells into helper Th2 cells, chara	acterized S	L K S I M Q M D Y S
by their cytokine-secretion profile that includes sec	cretion of	Endotoxin:
IL-4, IL-5, IL-6, IL-10, and IL-13, which favor a $% \left( {\left[ {L_{\rm{T}}} \right]_{\rm{T}}} \right)$	humoral Le	ess than 1EU/mg of rmIL-4 as determined by LAL method.
immune response. Another dominant function of IL	$L-4$ is the $\mathbf{F}$	Reconstitution:
regulation of immunoglobulin class switching to the l	IgG1 and W	recommend that this vial be briefly centrifuged prior to
IgE isotypes. Excessive IL-4 production by Th2	cells has op	pening to bring the contents to the bottom. Reconstitute in
been associated with elevated IgE production and al	llergy. 10	0mM HAc to a concentration of 0.1-1.0 mg/mL. Stock solu-
Molecular Weight:	tic	ons should be apportioned into working aliquots and stored
Approximately 13.5 kDa, a single non-glycosylated	polypep- at	<-20°C. Further dilutions should be made in appropriate
tide chain containing 120 amino acids.	bu	affered solutions.
Purity:		Storage:
>96% by SDS-PAGE and HPLC analyses.		his lyophilized preparation is stable at 2-8°C, but should be
<b>Biological Activity:</b>		ept at -20°C for long term storage, preferably desiccated.
Fully biologically active when compared to standa		pon reconstitution, the preparation is stable for up to one
ED50 as determined by the dose-dependant prolifi		eek at 2-8°C. For maximal stability, apportion the reconsti-
Murine HT-2 cells is less then 2 ng/ml, correspond	-	ted preparation into working aliquots and store at -20°C to
Specific Activity of □5 x 105 IU/mg.	-70	0°C. Avoid repeated freeze/thaw cycles.
Physical Appearance:		Usage:
Sterile Filtered White lyophilized (freeze-dried) pov		his material is offered by USA Bioworld biotech for re-
Formulation:		earch, laboratory or further evaluation purposes. NOT FOR
Lyophilized from a 0.2mm filtered solution in PBS,	, pH 7.4. HI	UMAN USE. Made in China

## Bioworld Technology, Inc.

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