
Product Data Sheet

Product Name: IL 4 Human, Yeast
 Cat. No.: GP20503
 Batch No.: 1

Product Data

Purity	>98%	Source	Pichia pastoris.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	BCGF; BCDF; B cell stimulating factor; BSF-1; Lymphocyte stimulatory factor 1; IL-4; MGC79402; Binetrakin; Pitrakinra.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-4 in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from 0.2µm filtered solution in 20mM sodium phosphate buffer pH 6.0 in absence of any carrier protein.		

Introduction

IL4 is a pleiotropic cytokine produced by activated T cells. IL4 is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. IL4, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.

Biological Activity

The biological activity is determined by measuring the dose-dependent proliferation of human TF_HC1 cells and CD23 expression. A concentration range of 0.1µC10.0 ng/ml is effective for most in vitro applications. ED50 = 0.05µC0.4ng/ml.

Stability

Lyophilized Interleukin-4 although stable at room temperature for 3 weeks. should be

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Lyophilized Interleukin-4 should be stored at room temperature for 2 weeks, should be stored desiccated below -18°C . Upon reconstitution Interleukin-4 should be stored at 4°C between 2-7 days and for future use below -18°C . Please prevent freeze-thaw cycles.

Background

Interleukin-4 Human Recombinant produced in yeast is a single, glycosylated polypeptide chain containing 129 amino acids. The IL-4 is purified by proprietary chromatographic techniques.

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