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IL 4 Human, Yeast

Interleukin 4 Human Recombinant, Yeast
CYK0332

Product Overview

Name	IL 4 Human, Yeast

Description

Interleukin 4 Human Recombinant, Yeast

Accession (Primary)	P05112

Synonyms

BCGF, BCDF, B cell stimulating factor, BSF-1, Lymphocyte stimulatory factor 1, IL-4, MGC79402, Binetrakin, Pitrakinra.

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.

Source

Pichia pastoris.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

The protein was lyophilized from 0.2 μm filtered solution in 20mM sodium phosphate buffer pH 6.0 in absence of any carrier protein.

Stability

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

Purity

Greater than 98% as determined by SDS-PAGE.

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Biological Activity

The biological activity is determined by measuring the dose-dependent proliferation of human TF−1 cells and CD23 expression. A concentration range of 0.1−10.0 ng/ml is effective for most in vitro applications. ED 50 = 0.05−0.4ng/ml.

Solubility

It is recommended to reconstitute the lyophilized Interleukin-4 in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

IL 4 Human, Yeast is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P05112)