
Product Data Sheet

Product Name: IL 4 Human, CHO
 Cat. No.: GP20497
 Batch No.: 1

Product Data

Purity	>98%	Source	Chinese Hamster Ovarian Cells.
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 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a Phosphate- Buffered Saline (pH 7.4).		

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

Measured in a cell proliferation assay using TF-1 cells. The ED50 for this effect is 0.05-0.2ng/ml corresponding to a Specific Activity of 5,000,000-20,000,000IU/mg.

Stability

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

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stored desiccated below -18°C . Upon reconstitution IL4 should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

Interleukin-4 Human Recombinant produced in CHO is a single, non-glycosylated polypeptide chain containing 129 amino acids and having a molecular mass of 14 kDa, the glycosylation of IL-4 migrates as 18 kDa on SDS-PAGE. The IL-4 is purified by proprietary chromatographic techniques.

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