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## Product Data Sheet

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Product Name: IL 4 Human, His  
 Cat. No.: GP20498  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	BCGF; BCDF; B cell stimulating factor; BSF-1; Lymphocyte stimulatory factor 1; IL-4; MGC79402; Binetrakin; Pitrakinra.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCRAA TVLRQFYSHH EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLKI MREKYSKCSS.		
Formulation	Interleukin-4 His-Tag is supplied in 20mM Tris-HCl and 10% glycerol.		

### Introduction

Interleukin-4 is a pleiotropic cytokine produced primarily by activated T lymphocytes, basophils and mast cells. Multiple immune response-modulating functions are performed by IL-4 on a variety of cell types and it has an important role in the regulator of isotype switching, induction of IgE production in B lymphocytes and differentiation of precursor T helper cells. IL-4 binds to both membrane-bound and secreted soluble IL-4 receptors.

### Biological Activity

The ED50 for this effect is <0.5ng/ml. Measured in a cell proliferation assay using TF1 human erythroleukemic cells.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

### Background

Interleukin-4 Human Recombinant produced in E.Coli is single, a non-glycosylated,

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Polypeptide chain containing 150 amino acids fragment (25-153) and having a total molecular mass of 17.2kDa. The IL-4 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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