
Product Data Sheet

Product Name: IL 6 Human
 Cat. No.: GP20514
 Batch No.: 1

Product Data

Purity	Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.	Source	Escherichia Coli.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.	Shipping Condition	Shipped at Room temp.
Synonyms	B cell differentiation factor; BCDF; BSF-2; HPGF; HSF; MGI-2; B-cell stimulatory factor 2;Hybridoma growth factor; CTL differentiation factor; CDF; IL-6; HGF.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Pro-Val-Pro-Pro.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-6 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 0.2um filtered concentrated (1mg/ml) solution in PBS, pH 7.4.		

Introduction

IL-6 is a cytokine with a wide variety of biological functions: it plays an essential role in the final differentiation of b-cells into ig-secreting cells, it induces myeloma and plasmacytoma growth, it induces nerve cells differentiation, in hepatocytes it induces acute phase reactants.

Biological Activity

The ED50 as determined by the dose-dependant stimulation of murine 7TD1 cells is less than 0.1 ng/ml, corresponding to the specific activity of 1.0 x 10,000,000 Units per mg.

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

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Stability

Lyophilized Interleukin-6 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL6 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-6 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 184 amino acids and having a molecular mass of 21000 Dalton. The IL6 is purified by proprietary chromatographic techniques.

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