
Product Data Sheet

Product Name: IL 9 Human
 Cat. No.: GP20536
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	P40; HP40; T-cell growth factor p40; IL-9; P40 cytokine.		
Amino Acid Sequence	MQGCPTLAGI LDINFLINKM QEDPASKCHC SANVTSCCLCL GIPSDNCTRP CFSERLSQMT NTTMQTRYPL IFSRVKKSVE VLKNNKCPYF SCEQPCNQTT AGNALTFLKS LLEIFQKEKM RGMRGKI.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-9 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	IL-9 protein was lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4.		

Introduction

Factor that is thought to be a regulator of hematopoiesis. It has been shown to enhance the growth of human mast cells and megakaryoblastic leukemic cells as well as murine helper t-cell clones. IL-9 is a glycoprotein with a molecular weight of 32-39 that is derived from T-cells, and maps to human chromosome 5.

Biological Activity

The ED₅₀ as determined by the dose-dependent stimulation of human MO7e cells is less than 0.2 ng/ml, corresponding to a Specific Activity of >5.06[±]10⁶ IU/mg.

Stability

Lyophilized Interleukin-9 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL9 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.

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

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Background

Interleukin-9 Human Recombinant produced in E.Coli is a single, non-glycosylated single polypeptide chain containing 127 amino acids and having a molecular mass of 14,004 Dalton. The IL-9 is purified by proprietary chromatographic techniques.

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