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IL 9 Mouse

Interleukin-9 Mouse Recombinant
CYK0354

Product Overview

Name	IL 9 Mouse
Description	
Interleukin-9 Mouse Recombinant	
Accession (Primary)	P15247
Synonyms	
P40, HP40, T-cell growth factor p40, IL-9, P40 cytokine.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a concentrated (1mg/ml) solution 10mM Na 2 PO 4 , pH 7.5.	
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.	
Purity	
Greater than 96.0% as determined by SDS-PAGE.	
Amino acid sequence	
MQRCSTTWGI RDTNYLIENL KDDPPSKCSC SGNVTSCLCL SVPTDDCTTP CYREGLLQLT NATQKSRLLP VFHRVKRIVE VLKNITCPSF SCEKPCNQTM AGNTMSFLKS LLGTFQKTEM QRQKSRP.	
Biological Activity	
The ED50 as determined by the dose-dependant stimulation of human MO7e cells is < 0.5 ng/ml, corresponding to a Specific Activity of 2,000,000IU/mg.	

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Solubility

It is recommended to reconstitute the lyophilized Interleukin 9 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.6 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of IL-9 as a Reference Standard.

Precautions

IL 9 Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P15247)