



Interleukin-9, human recombinant (rHuIL-9)

Catalog No: 52617
Lot No: XXXXX
Source: *E. coli*
Synonyms: P40, HP40, T-cell growth factor p40, IL-9, P40 cytokine

Background

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.

Description

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. IL-9 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a concentrated (1 mg/ml) solution containing 10 mM Na₂PO₄, pH 7.5.

Solubility

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

Stability

Lyophilized Interleukin-9, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-9 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 98.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

MQGCPTLAGI LDINFLINKM QEDPASKCHC SANVTSCLCL GIPSDNCTRP CFSERLSQMT NTTMQTRYPL IFSRVKKSVE
VLKNNKCPYF SCEQPCNQTT AGNALTFLLKS LLEIFQKEKM RGMGRKI

Activity

The ED50 as determined by the dose-dependant proliferation of human MO7e cells is <0.5 - 0.7 ng/ml.

Usage

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