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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 



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 SANVTSCCLL GIPSDNCTRP CFSERLSQMT NTTMQTRYPL IFSRVKKSVE
VLKNNKCPYF SCEQPCNQTT AGNALTFLLKS LLEIFQKEKM RGMGRGI

Activity

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

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.