Recombinant Human Interleukin-9 (rh IL-9)

Synonyms: T-cell growth factor p40, P40 cytokine.

Introduction: IL-9 is a 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. It is a glycoprotein with a molecular weight of 32-39 that is derived from T-cells, and maps to human chromosome 5.

Description: Recombinant human IL-9 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 rh IL-9 is purified by proprietary chromatographic techniques.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilizied from a 0.2µm filtered solution in PBS, pH 7.4. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh IL-9 in sterile water not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh IL-9 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh 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 97.0% as determined by RP-HPLC and by SDS-PAGE.

Amino acid Sequence: MQGCPTLAGI LDINFLINKM QEDPASKCHC SANVTSCLCL GIPSDNCTRP CFSERLSQMT NTTMQTRYPL IFSRVKKSVE VLKNNKCPYF SCEQPCNQTT AGNALTFLKS LLEIFQKEKM RGMRGKI.

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 $>5.0 \times 10^6$ IU/mg.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

small	2 µg	Cat.N°	11340092
medium	10 µg	Cat.N°	11340093
large	50 µg	Cat.N°	11340095
x-large	250 µg	Cat.N°	11340097
xx-large	1000 µg	Cat.N°	11340098

ImmunoTools Excellent Quality - Advantageously priced

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