



Recombinant Human IL-9
(Interleukin-9)

Catalog Number: 100-82
Accession Number: PI5248

Specifications and Uses:

Alternate Names: T-cell growth factor p40, P40 cytokine

Description:

Interleukin 9 (IL-9) is cytokine produced by a subgroup of helper T cells, known as Th2 cells. IL-9 signals through its receptor IL-9R to induce cell proliferation and survival. Genetically, IL-9 has been identified as a gene associated with asthma. Recombinant human IL-9 is a non-glycosylated protein, containing 127 amino acids, with a molecular weight of 14 kDa.

Source: *E.coli*

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

Formulation and Stability:

Recombinant human IL-9 is lyophilized from 10 mM Na₂PO₄, pH 7.5.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically ≥ 98%) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:

The activity is determined by the dose-dependent proliferation of human MO7e cells and is typically between 0.1-0.6 ng/mL.

AA Sequence:

MQGCPTLAGI LDINFLINKM QEDPASKCHC SANVTSCCLCL GIPSDNCTRP CFSERLSQMT NTTMQTRYPL
IFSRVKKSVE VLKNNKCPYF SCEQPCNQTT AGNALTFLKS LLEIFQKEKM RGMRGKI

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

Gentaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium