

Recombinant Human IL-9

Catalog Number: HZ-1240

HEK293 expressed

Endotoxin-free

Animal-component free

Technical Specifications

Species: human	Purity: >95%	Formulation: 1x PBS, See Certificate of Analysis for details
Expression: HEK293	Endotoxin: <1 EU/μg	Gene ID: 3578
Activity: Typically ≤ 1 ng/mL EC50	Molecular Mass: 38 to 48 kDa, monomer, glycosylated	

Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1xPBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Stability and Storage

Lyophilized proteins are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

Background

Interleukin 9 (IL-9) is a γ c-family cytokine produced by T-helper 9 (Th9) cells. IL-9 promotes the survival and activation of various cellular targets, including mast cells, B cells, T cells, and structural cells. Its expression is considered a hallmark of Th2-lineage cells. Primarily studied in Th2-type immunity, IL-9 was shown to be involved in asthma, allergy, and host defense against helminth infections. IL-9 also stimulates cell proliferation and prevents apoptosis. It functions through its cognate receptor (IL9R), which activates different signal transducer and activator proteins to execute various biological processes (PMID: 29703631; 29437190; 29392411; 29391143)

Synonyms

Cytokine P40, HP40, IL 9, IL9, IL-9, interleukin 9, P40, T cell growth factor P40

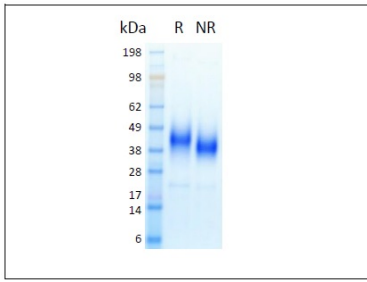
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or
1(312) 455-8498 (outside USA)

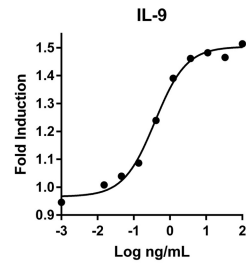
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Selected Validation Data



The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.



The activity was determined by the dose-dependent stimulation of the proliferation of human MO7e cells (human megakaryoblastic leukemia cell line) using Promega CellTiter96® Aqueous Non-Radioactive Cell Proliferation Assay.