

**HumanKine<sup>®</sup> IL-9 (Recombinant Human)**



Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
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**Product Description**

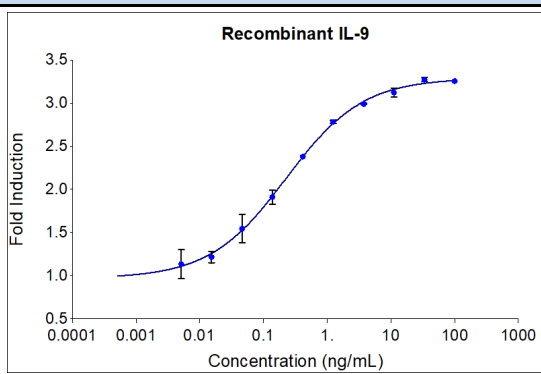
Animal-free Recombinant Human IL-9 is expressed from human 293 cells as a glycoprotein monomer with apparent molecular mass of 38 to 48 kDa. IL-9 is produced in a human cell expression system with serum-free, chemically defined media. It stimulates cell proliferation and also prevents apoptosis. IL-9 acts as a regulator for a variety of hematopoietic cells. It enhances the expansion and recruitment of mast cells and eosinophils. This cytokine is greater than 95% pure.

Alternative Names	Cytokine P40, HP40, IL 9, IL9, IL-9, interleukin 9, P40, T cell growth factor P40
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived IL-9 protein

**Specifications**

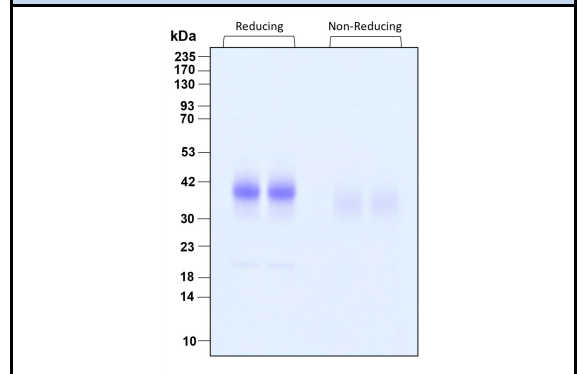
Test	Method	Specification
Activity	Dose-dependent stimulation of the proliferation of human MO7e cells (human megakaryoblastic leukemia cell line).	0.1-0.6 ng/mL
Molecular Mass	SDS-PAGE	38 to 45 kDa reduced, 32 to 40 kDa non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/ μg

**Activity Data**



Recombinant human IL-9 (HZ-1240) stimulates dose-dependent proliferation of the MO7e (human megakaryoblastic leukemia) cell line. Cell number was quantitatively assessed by PrestoBlue<sup>®</sup> Cell Viability Reagent. MO7e cells were treated with increasing concentrations of recombinant IL-9 for 72 hours. The EC<sub>50</sub> was determined using a 4-parameter non-linear

**SDS-PAGE**



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS, See Certificate of Analysis for details
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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