

IL-9 Protein, Mouse (CHO)

Cat. No.:	HY-P7083
Synonyms:	rMuIL-9; Cytokine P40; T-cell Growth Factor P40
Species:	Mouse
Source:	CHO
Accession:	P15247 (Q19-P144)
Gene ID:	16198
Molecular Weight:	28-42 kDa

PROPERTIES

AA Sequence	<p>Q R C S T T W G I R D T N Y L I E N K L D D P P S K C S C S G N V T S C L C L S</p> <p>V P T D D C T T P C Y R E G L L Q L T N A T Q K S R L L P V F H R V K R I V E V</p> <p>L K N I T C P S F S C E K P C N Q T M A G N T L S F L K S L L G T F Q K T E M Q</p> <p>R Q K S R P</p>
Biological Activity	Measured in a cell proliferation assay using M07e human megakaryocytic leukemic cells. The ED ₅₀ for this effect is 3.339 ng/mL, corresponding to a specific activity is 3.0×10 ⁵ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	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. Human interleukin-9 (IL-9) was originally identified and cloned based on its stimulatory effect on proliferation of human myeloid cell line, M07e. IL-9 synergized with Steel factor, the ligand for the c-kit product, to stimulate M07e cell proliferation ^[1]
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REFERENCES

[1]. Miyazawa K, et al. Recombinant human interleukin-9 induces protein tyrosine phosphorylation and synergizes with steel factor to stimulate proliferation of the human factor-dependent cell line, M07e. Blood. 1992 Oct 1;80(7):1685-92.

Caution: Product has not been fully validated for medical applications. For research use only.

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