Recombinant Murine Interleukin-9 (rMuIL-9)

PrimeGene Technical Data Sheet

Catalog Number:	121-09
Source:	*Escherichia coli.*
Molecular Weight:	Approximately 14.2 kDa, a single non-glycosylated polypeptide chain containing 126 amino acids.
Quantity:	2μg/10μg/1000μg
AA Sequence:	QRCSTTWGIR DTNYLIENLK DDPPSKCSCS GNVTSCLCLS VPTDDCTTPC YREGLLQLTN ATQKSRLLPV FHRVKRIVEV LKNITCPSFS CEKPCNQTMA GNTLSFLKSL LGTFQKTEMQ RQKSRP
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED_{50} as determined by a cell proliferation assay using murine TS1 cells is less than 0.02 ng/ml, corresponding to a specific activity of > 5.0×10^7 IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Endotoxin:	Less than 0.1 EU/μg of rMuIL-9 as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory or further evaluation purposes. **NOT FOR HUMAN USE.**

Murine Interleukin-9

Murine interleukin-9 (IL-9) was originally identified as T cell-derived T cell growth factor III/P40 that could support the long term growth of certain murine T helper clones in the absence of antigen or antigen-presenting cells. Human IL-9 was independently cloned as a novel growth factor that is mitogenic for the human megakaryoblastic leukemic cell line, M07e. Murine IL-9 shares 56 % amino acid sequence identity with human IL-9. Although murine IL-9 is active on human cells, human IL-9 is not active on murine cells.

Shanghai PrimeGene Bio-Tech Co., Ltd.
Website: www.primegene.com.cn
Tel: +86 21 52380373
Website: www.primegene.com
Fax: +86 21 61077348
Email: info.pg@bio-techne.com