Datasheet

Cat. No. P1165

Recombinant Mouse IL-9

Information

Gene ID	16198
Accession #	P15247
Alternate Names	
Source	*Escherichia coli.*
M.Wt	Approximately 14.2 kDa, a single non-glycosylated polypeptide chain containing 126 amino acids.
AA Sequence	QRCSTTWGIR DTNYLIENLK DDPPSKCSCS GNVTSCLCLS VPTDDCTTPC YREGLLQLTN ATQKSRLLPV FHRVKRIVEV LKNITCPSFS CEKPCNQTMA GNTLSFLKSL LGTFQKTEMQ RQKSRP
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
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.
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.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	100 μg	500 μg
Recombinant Mouse IL-9	100 μg	500 μg

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Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 0.1 EU/μg of rMuIL-9 as determined by LAL method.

Description

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.

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