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Mouse recombinant IL-9 (Interleukin-9) protein, AF

Catalog Number: PROTP15247-2

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Overview

Product Name	Mouse recombinant IL-9 (Interleukin-9) protein, AF
Description	Interleukin 9, also known as IL-9, is a pleiotropic cytokine (cell signalling molecule) belonging to the group of interleukins. IL-9 is produced by variety of cells like mast cells, NKT cells, Th2, Th17, Treg, ILC2, and Th9 cells in different amounts. Among them, Th9 cells are regarded as the major CD4+ T cells that produce IL-9.
Size	5ug,20ug,100ug
Tag	His Tag (N-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

14.97 kDa

Activity

Measure by its ability to induce proliferation in MO7e cells. The ED_{50} for this effect is <0.2 ng/mL. The specific activity of recombinant mouse IL-9 is > 5 x 10^6 IU/mg.

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Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

QRCSTTWGIRDTNYLIENLKDDPPSKCSCSGNVTSCLCLSVPTDDCTTPCYREGLLQLTNATQKSRLLPVFHRVKRIVEVLKNITCPSFSCEKPCNQTMAG NTLSFLKSLLGTFQKTEMQRQKSRP with polyhistidine tag at the N-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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Usage

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