BOSTER BIOLOGICAL TECHNOLOGY
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Mouse recombinant CCL2 (C-C motif chemokine ligand 2) protein, AF

Catalog Number: PROTP10148-4

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Overview

Product Name	Mouse recombinant CCL2 (C-C motif chemokine ligand 2) protein, AF
Description	C-C Motif Chemokine Ligand 2 (CCL2) is a 13.88 kDa cytokine with 125 amino acid residues and is also known as monocyte chemoattractant protein 1 (MCP1). CCL2 is mainly secreted from monocytes, macrophages, and dendritic cells. It regulates many biological functions, such as recruitments of monocytes, memory T cells, eosinophils, and dendritic cells, extravasation of helper T cells, response to TNFalpha and IFNgamma, and angiogenesis. In addition, upon binding with CCR4, it initiates leukocyte migration response to inflammation.
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

The protein has a calculated MW of 14.65 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to chemoattract BaF3 cells transfected with CCR2A. The ED_{50} for this effect is <8 ng/mL.

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Endotoxin

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

Amino Acid Sequence

QPDAVNAPLTCCYSFTSKMIPMSRLESYKRITSSRCPKEAVVFVTKLKREVCADPKKEWVQTYIKNLDRNQMRSEPTTLFKTASALRSSAPLNVKLTRKSE ANASTTFSTTTSSTSVGVTSVTVN 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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