

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

Catalog Number: PROTP10148-4

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 ED₅₀ for this effect is <8 ng/mL.

Endotoxin

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

Amino Acid Sequence

QPDVNAPLTCCYSFTSKMIPMSRLESYKRITSSRCPEAVVFVTKLKREVCADPKKEWVQTYIKNLDRNQMRSEPTTLFKTASALRSSAPLNVKLTRKSE
ANASTTFSTTSSTSVGVTSVTVN 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 H₂O 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.

Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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