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Ccl2
Recombinant Mouse Monocyte Chemotactic Protein-1 / CCL2

Catalog No.	CRJ000A	**Quantity:**	2 µg
	CRJ000B		10 µg
	CRJ000C		1.0 mg
	CRJ000D		100 µg

Alternate Names: CCL2, C-C motif chemokine 2, Monocyte chemoattractant protein 1, MCP-1, Monocyte chemotactic protein 1

Description: Monocyte Chemotactic Protein 1 is thought to be produced by injured or infected tissues. Acts as a ligand for C-C chemokine receptor CCR2 . Signals through binding and activation of CCR2 and induces a strong chemotactic response and mobilization of intracellular calcium ions. MCP-1 signals through G protein-coupled receptors, CCR2 and CCR4, to recruit memory T cells, monocytes and dendritic cells. Plays an important role in mediating peripheral nerve injury-induced neuropathic pain.

Gene ID: 20296

UniProt ID: P10148

Source: *E. coli*

Molecular Weight: Monomer, 13.8 kDa (125 aa)

Formulation: Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

Purity: > 95%, by reducing and non-reducing SDS-PAGE

Endotoxin Level: ≤ 1 EU/µg, by kinetic LAL

Biological Activity: ED_{50} ≤100 ng/ml, determined by a dose-dependent chemotaxis of human PBMCs or THP-1 cells.

Amino Acid Sequence: QPDAVNAPLT CCYSFTSKMI PMSRLESYKR ITSSRCPKEA VVFVTKLKRE VCADPKKEWV QTYIKNLDRN QMRSEPTTLF KTASALRSSA PLNVKLTRKS EANASTTFST TTSSTSVGVT SVTVN

Reconstitution: **Centrifuge vial prior to opening**. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions. **Do not vortex.**

Storage & Stability:

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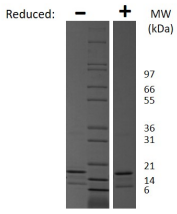
store at -20°C to -80°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage. **Avoid repeated freeze-thaw cycles. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.**



Mouse MCP-1 / CCL2 Gel
Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse MCP-1 / CCL2 is predicted to have a MW of 13.8 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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