

Active Recombinant Mouse Ccl2 Protein (73 aa)

Cat. No. Ccl2-173C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse MCP-1/CCL2 produced in HEK293 cells is a polypeptide chain containing 73 amino acids. A fully biologically active molecule, rmMCP-1/CCL2 has a molecular mass of 8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Mouse
Source	HEK293
ProteinLength	73
Description	Chemokine (C-C motif) ligand 2 (CCL2) is also referred to as monocyte chemotactic protein 1 (MCP1) and small inducible cytokine A2. CCL2 is a small cytokine that belongs to the CC chemokine family. CCL2 recruits monocytes, memory T cells, and dendritic cells to the sites of inflammation produced by either tissue injury or infection. CCL2 is implicated in the pathogenesises of several types of disease characterized by monocytic infiltrates, such as psoriasis, rheumatoid arthritis and atherosclerosis. CCL2 is anchored in the plasma membrane of endothelial cells by glycosaminoglycan side chains of proteoglycans. CCL2 is primarily secreted by monocytes, macrophages and dendritic cells. CCL2 can signal through the CCR2 receptor.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	The EC50 value of mouse MCP-1/CCL2 on Ca ²⁺ mobilization assay in CHO-K1/G

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	α15/mCCR2 cells (human Ga15 and mouse CCR2 stably expressed in CHO-K1 cells) is less than 0.3 µg/mL.
Molecular Mass	8 kDa, observed by reducing SDS-PAGE.
AA Sequence	QPDAVNAPLTCCYSFTSKMIPMSRLESYKRITSSRCPKEAVVVFVTKLKREVCADPKK EWWQTYIKNLDRNQMR
Endotoxin	< 0.2 EU/µg, determined by LAL method.
Purity	> 98% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Mouse MCP-1/CCL2 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Mouse MCP-1/CCL2 should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.

GENE INFORMATION

Gene Name	<i>Ccl2</i> chemokine (C-C motif) ligand 2 [<i>Mus musculus</i>]
Official Symbol	<i>Ccl2</i>
Synonyms	CCL2; chemokine (C-C motif) ligand 2; C-C motif chemokine 2; small inducible cytokine A2; small-inducible cytokine A2; monocyte chemotactic protein 1; monocyte chemoattractant protein 1; monocyte chemoattractant protein-1; platelet-derived growth factor-inducible protein JE; JE; HC11; MCAF; MCP1; MCP-1; Scya2; Sigje; SMC-CF; AI323594;

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Gene ID	20296
mRNA Refseq	NM_011333
Protein Refseq	NP_035463
UniProt ID	P10148

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