

Overview

Synonyms	MCP-1, MCAF, JE, Monocyte Chemotactic Protein-1 (MCP-1), CCL2
Description	<p>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 pathogenesis 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.</p> <p>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.</p>
Accession No	P02775
Species	Mouse
Source	HEK 293
Biological Activity	The EC ₅₀ value of mouse MCP-1/CCL2 on Ca ²⁺ mobilization assay in CHO-K1/Ga15/mCCR2 cells (human Ga15 and mouse CCR2 stably expressed in CHO-K1 cells) is less than 0.3 µg/ml.
Sequence	QPDVAVNAPLT CCYSFTSKMI PMSRLESYKR ITSSRCPKEA VVFVTKLKRE VCADPKKEWV QTYIKNLDRN QMR

Properties

Measured Molecular Weight	8 kDa, observed by reducing SDS-PAGE.
Purity	> 98% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant Mouse MCP-1/CCL2 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse MCP-1/CCL2 should be stable up to 1 week at 4°C or up to 3 months at -20°C.
Note	For research use only

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: customerservice@lifetechindia.com

Web: www.lifetechindia.com