Recombinant Human CCL2

Cat No:HR2R1230

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	CCL2
Gene ID	6347
Accession	P13500
Alternative Name	Monocyte Chemotactic Protein-1, MCP-1, CCL2, MCAF, C-C motif chemokine 2, HC11, Monocyte chemotactic and activating factor, Monocyte secretory protein JE, Small-inducible cytokine A2, MCP1, SCYA2 Recombinant Human Monocyte Chemoattractant Protein-1 (CCL2)
Species	Human
Source	E. coli
Description	MCP-1 belongs to the family of chemotactic cytokines. MCP-1 is expressed by monocytes, vascular endothelial cells, smooth muscle cells, glomerular mesangial cell, and osteoblastic cells. MCP-1 has been shown to exhibit biological activities other than chemotaxis. It can induce the proliferation and activation of killer cells known as CHAK. Elevated levels of MCP-1 are observed in atherosclerotic plaques that are rich in macrophages. The factor activates the tumoricidal activity of monocytes and macrophages in vivo. It regulates the expression of cell surface antigens (CD11c, CD11b) and the expression of cytokines (IL-1, IL-6). MCP-1 is a potent activator of human basophils, inducing degranulation and the release of histamines. In basophils activated by IL-3, IL-5 or GM-CSF MCP-1 enhances the synthesis of leukotriene C4.
Functions	The ED(50) was determined by the dose-dependent proliferation of PC3 cells and was found to be <0.2ng/mL.
Formulation	MCP-1 was lyophilized from PBS pH 7.4.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	9
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	This cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.