



Recombinant Human MCP-2 (CCL8)

Cat No:HR2R1703

For research use only

Overview

Quantity	250 µg
Gene Symbol	CCL8
Gene ID	6355
Accession	P80075
Alternative Name	Monocyte Chemotactic Protein-2, MCP2, HC14, C-C motif chemokine 8 Recombinant Human Monocyte Chemoattractant Protein-2 (CCL8)
Species	Human
Source	E. coli
Description	Monocyte chemotactic protein MCP-2 is a C-C chemokine. It shares over 60% amino acid identity with MCP-1 and MCP-3 and has about 30% identity with other C-C chemokines MIP-1 alpha, RANTES, and MIP-1 beta. MCP-2 is chemotactic for and activates a wide variety of inflammatory cells, and its spectrum of action on leukocytes is similar to that of MCP-3, including monocytes, T lymphocytes, natural killer cells, basophils, mast cells, and eosinophils, but differs from MCP-1, which is not active on eosinophils. MCP-2 has been proposed to interact with multiple C-C chemokine receptors, including those used by MCP-1 and MCP-3. However, since leukocytes express a multiplicity of chemokine receptors with promiscuous binding and functional properties, it is difficult to identify the receptors used by a given ligand on these cells.
Functions	The ED(50) was determined by the dose-dependent chemo-attraction of THP1 leukemic cells and was found to be 50 ng/mL, corresponding to a specific activity of > 5.0 x 10 ⁴ units/mg.
Formulation	Lyophilized from a 0.2 µm filtered 20 mM solution in PBS
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/µg of recombinant protein as determined by the LAL method
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70°C. Upon reconstitution, 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.