

Recombinant Human MCP-2 (CCL8)

Cat No:HR2R1703

For research use only

Overview

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| 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. |