Recombinant Mouse MCP-2 (CCL8)

Cat No:HR2R2192

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	CCL8
Gene ID	20307
Accession	Q9Z121
Alternative Name	C-C motif chemokine 8, Monocyte chemotactic protein 2, MCP-2, Small-inducible cytokine A8, Mcp2, Scya8 Recombinant Mouse Monocyte Chemoattractant Protein-2 (CCL8)
Species	Mouse
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. Also, its spectrum of action on leukocytes is similar to that of MCP-3. The leukocytes affected are monocytes, T lymphocytes, natural killer cells, basophils, mast cells, and eosinophils - 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 human PBMC using a range of 10-100 ng/mL.
Formulation	Mouse MCP-2 was lyophilized from a 0.2 ?m filtered 20 mM PB solution pH 7.5, 100 mM NaCl.
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	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.