

Recombinant Human MCP-4 (CCL13)

Cat No:HR2R1709

For research use only

Overview

Quantity	100 µg
Gene Symbol	CCL13
Gene ID	6357
Accession	Q99616
Alternative Name	Monocyte chemotactic protein 4, CCL13, NCC-1, C-C motif chemokine 13, Small-inducible cytokine A13, MCP4, NCC1, SCYA13 Recombinant Human Monocyte Chemoattractant Protein-4 (CCL13)
Species	Human
Source	E. coli
Description	Monocyte Chemoattractant Proteins 4 (MCP-4/CCL13) is member of a distinct, structurally-related subclass of CC chemokines. MCP-4/CCL13 is a major chemoattractants for eosinophils, basophils, monocytes, and T lymphocytes. The MCP protein family bind to specific G-protein-coupled receptors, initiating a signal cascade within the cell. Expression of MCP-4/CCL13 mRNA and protein is greater in the sputum, epithelium, submucosal inflammatory cells, and bronchoalveolar lavage fluid of asthmatics than in healthy individuals. Involvement of MCPs has also been demonstrated in renal inflammation and atopic dermatitis. The expression of this protein is also correlated with enhanced inflammatory immune responses during immunotherapy. The recombinant construct corresponds to the "short-chain" of CCL13 spanning amino acids 24 - 98.
Functions	Determined by its ability to chemoattract human monocytes using a concentration range of 20-40 ng/mL.
Formulation	Lyophilized from a 0.2 µm filtered solution in PB, 100mM NaCl, pH 7.5
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.