

GFH132 Recombinant Human MCP-4 / CCL13

Description

Monocyte Chemotactic Protein 4 (MCP-4), also known as CCL13, is induced by inflammatory proteins such as interleukin-1 (IL-1) and Tumor Necrosis Factor α (TNF- α). MCP-4 is a ligand for the G protein coupled chemokine receptors CCR2, CCR3, and CCR5. MCP-4 activates signaling in monocytes, T lymphocytes, eosinophils, and basophils during inflammation and allergic responses.

Length	75 aa
Molecular Weight	8.6 kDa
Source	E. coli
Accession Number	Q99616
Purity	$\geq 95\%$ determined by reducing and non-reducing SDS-PAGE

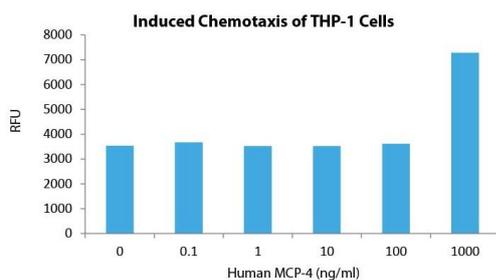
Specifications

Alternative Names	Monocyte Chemotactic Protein 1, CCL2, JE, MCAF
Biological Activity	Human MCP-4 is fully biologically active when compared to standard. The activity is determined by the ability to induce chemotaxis of THP-1 cells.
Endotoxin Level	≤ 1.00 EU/ μ g as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
AA Sequence	QPDALNVPST CCFTFSSKKI SLQRLKSYVI TTSRCPQKAV IFRTKLGKEI CADPKEKWVQ NYMKHLGRKA HTLKT

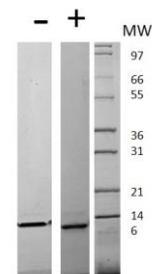
Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced chemotaxis of THP-1 cells assay for Human MCP-4. Cells that migrated were counted using a luminescent substrate. Migration over basal levels was reported in response to Human MCP-4 starting at 1000 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μ g of protein was loaded in each lane. Human MCP-4 has a predicted Mw of 8.6 kDa.