

## GFH13 Recombinant Human MCP-1 / CCL2

### Description

Monocyte Chemotactic Protein 1 (MCP-1), also known as CCL2, is produced by injured or infected tissues. MCP-1 signals through the CCR2 and CCR4 G protein-coupled receptors to recruit memory T cells, monocytes, and dendritic cells to sites of inflammation.

<b>Length</b>	76 aa
<b>Molecular Weight</b>	8.7 kDa
<b>Source</b>	E. coli
<b>Accession Number</b>	P13500
<b>Purity</b>	≥95% determined by reducing and non-reducing SDS-PAGE

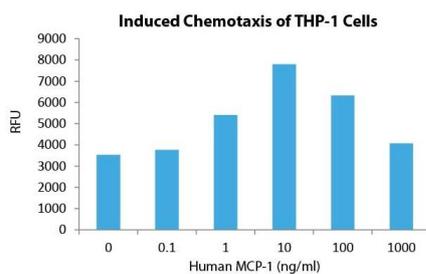
### Specifications

<b>Alternative Names</b>	Monocyte Chemotactic Protein 1, CCL2, JE, MCAF
<b>Biological Activity</b>	Human MCP-1 is fully biologically active when compared to standard. The activity is determined by the ability to induce chemotaxis of THP-1 cells and it is typically less than 100 ng/ml.
<b>Endotoxin Level</b>	≤1.00 EU/μg as measured by kinetic LAL
<b>Formulation</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)
<b>AA Sequence</b>	QPDAINAPVT CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE ICADPKQKWV QDSMDHLDKQ TQTPKT

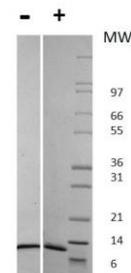
### Preparation and Storage

<b>Reconstitution</b>	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.
<b>Stability and Storage</b>	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-1. Cells that migrated were counted using a luminescent substrate. Migration over basal levels was reported in response to Human MCP-1 starting at 1 ng/ml.



Non-reducing (-) conditions in a 16% Tris-Glycine gel stained with Coomassie Blue. 6 μg of protein was loaded in each lane. Mouse LIF has a predicted Mw of 20 kDa.