

## Animal-Free MCP-1/CCL2 Protein, Human (His)

<b>Cat. No.:</b>	HY-P700034AF
<b>Synonyms:</b>	C-C motif chemokine 2; CCL2; HC11; MCAF; MCP-1; HSMCR30; MCP1; SCYA2; SMC-CF; GDCF-2
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P13500 (Q24-T99)
<b>Gene ID:</b>	6347
<b>Molecular Weight:</b>	Approximately 9.49 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>Q P D A I N A P V T    C C Y N F T N R K I    S V Q R L A S Y R R    I T S S K C P K E A</p> <p>V I F K T I V A K E    I C A D P K Q K W V    Q D S M D H L D K Q    T Q T P K T</p>
<b>Biological Activity</b>	Measure by its ability to chemoattract BaF3 cells transfected with human CCR2A. The ED <sub>50</sub> for this effect is <20 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a solution containing 1X PBS, pH 7.4.
<b>Endotoxin Level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>MCP-1/CCL2, Human, serves as a ligand for C-C chemokine receptor CCR2, initiating a robust chemotactic response and intracellular calcium mobilization upon CCR2 binding and activation. This chemokine exhibits chemotactic activity specifically for monocytes and basophils, excluding neutrophils or eosinophils from its influence. Additionally, MCP-1/CCL2 may play a role in recruiting monocytes to the arterial wall during the progression of atherosclerosis. Existing in equilibrium as a monomer or homodimer, it is anchored to endothelial cells by glycosaminoglycan (GAG) side chains of proteoglycans. Furthermore, MCP-1/CCL2 interacts with TNFAIP6 through its Link domain.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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