

MCP-1/CCL2 Protein, Mouse (HEK293)

Cat. No.:	HY-P7235
Synonyms:	rMuMCP-1/CCL2; C-C motif chemokine 2; MCAF; MCP-1; SCYA2
Species:	Mouse
Source:	HEK 293
Accession:	P10148 (Q24-R96)
Gene ID:	20296
Molecular Weight:	Approximately 8 kDa

PROPERTIES

AA Sequence	Q P D A V N A P L T C C Y S F T S K M I P M S R L E S Y K R I T S S R C P K E A V V F V T K L K R E V C A D P K K E W V Q T Y I K N L D R N Q M R
Biological Activity	The ED ₅₀ is <0.3 µg/mL as measured by CHO-K1/Gα15/mCCR2 cells (human Gα15 and mouse CCR2 stably expressed in CHO-K1 cells).
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O or PBS.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CCL2 is produced by a variety of cell types, either constitutively or after induction by oxidative stress, cytokines, or growth factors. CCL2 is produced by many cell types, including endothelial, fibroblasts, epithelial, smooth muscle, mesangial, astrocytic, monocytic, and microglial cells. CCL2 regulates the migration and infiltration of monocytes, memory T lymphocytes, and natural killer (NK) cells ^[1] . The chemokine CCL2 and its main chemokine receptor CCR2 have been implicated in the pathogenesis of several different disease processes, including vascular permeability and attraction of immune cells during metastasis, a number of different neurological disorders, autoimmune disease, obesity, and atherosclerosis ^[2] .
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REFERENCES

- [1]. Deshmane SL, et al. Monocyte chemoattractant protein-1 (MCP-1): an overview. J Interferon Cytokine Res. 2009 Jun;29(6):313-26.
- [2]. O'Connor T, et al. CCL2-CCR2 Signaling in Disease Pathogenesis. Endocr Metab Immune Disord Drug Targets. 2015;15(2):105-18.
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Caution: Product has not been fully validated for medical applications. For research use only.

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