

MCP-5/CCL12 Protein, Mouse (CHO)

Cat. No.:	HY-P7246
Synonyms:	rMuMCP-5/CCL12; C-C motif chemokine 12; MCP5; SCYA12
Species:	Mouse
Source:	CHO
Accession:	Q62401 (G23-G104)
Gene ID:	20293
Molecular Weight:	9.3-11 kDa

PROPERTIES

AA Sequence	<p>G P D A V S T P V T C C Y N V V K Q K I H V R K L K S Y R R I T S S Q C P R E A</p> <p>V I F R T I L D K E I C A D P K E K W V K N S I N H L D K T S Q T F I L E P S C</p> <p>L G</p>
Biological Activity	The ED ₅₀ is <0.5 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>CCL12, also known as monocyte chemoattractant protein 5 (MCP-5), belongs to the CC chemokine cluster on mouse chromosome 11. CCL12 is a potent peripheral blood mononuclear cell chemokine that attracts eosinophils, monocytes and lymphocytes but not neutrophils. It induces calcium flux in peripheral blood mononuclear cells, but not in purified mouse eosinophils or neutrophils. CCL12 is a potent monocyte-active chemokine that signals through CCR2. Involved in allergic inflammation and host response to pathogens, and may play a key role in the early stages of allergic pulmonary inflammation^{[1][2]}.</p>
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REFERENCES

- [1]. Sarafi MN, et al. Murine monocyte chemoattractant protein (MCP)-5: a novel CC chemokine that is a structural and functional homologue of human MCP-1. *J Exp Med*. 1997 Jan 6;185(1):99-109.
- [2]. She S, et al. Functional Roles of Chemokine Receptor CCR2 and Its Ligands in Liver Disease. *Front Immunol*. 2022 Feb 25;13:812431.
- [3]. Bethany B Moore, et al. The role of CCL12 in the recruitment of fibrocytes and lung fibrosis. *Am J Respir Cell Mol Biol*. 2006 Aug;35(2):175-81.
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Caution: Product has not been fully validated for medical applications. For research use only.

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