

MCP-5/CCL12 Protein, Mouse (*P. pastoris*, His)

Cat. No.:	HY-P700266
Synonyms:	rMuMCP-5/CCL12; C-C motif chemokine 12; MCP5; SCYA12
Species:	Mouse
Source:	<i>P. pastoris</i>
Accession:	NP_035461.2 (G23-G104)
Gene ID:	20293
Molecular Weight:	Approximately 10.7 kDa.

PROPERTIES

AA Sequence	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 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 L G
Appearance	Lyophilized powder.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 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.
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>MCP-5/CCL12 protein serves a pivotal role by enabling CCR2 chemokine receptor binding activity, thus contributing to various physiological processes. It plays a significant part in angiogenesis, inflammatory responses, and the chemotaxis of monocytes. Predicted to be located in the extracellular region and active in the extracellular space, this protein exhibits a broad expression pattern in tissues such as the central nervous system and retina. The human ortholog(s) of this gene are implicated in several diseases, including Henoch-Schoenlein purpura, aggressive periodontitis, autoimmune diseases, gastrointestinal system cancers, and tuberculosis, underlining its potential involvement in diverse pathological conditions. The orthologous relationship with human CCL2 and CCL8 emphasizes the evolutionary conservation and functional relevance of this chemokine protein across species.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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