

## Recombinant Murine Monocyte Chemotactic Protein-5/CCL12

### Information

<b>Gene ID</b>	20293
<b>Accession #</b>	Q62401
<b>Alternate Names</b>	MCP-1-related Chemokine, Small-inducible Cytokine A12
<b>Source</b>	Escherichia coli.
<b>M.Wt</b>	Approximately 9.3 kDa, a single non-glycosylated polypeptide chain containing 82 amino acids.
<b>AA Sequence</b>	GPDAVSTPVT CCYNVVKQKI HVRKLKSYRR ITSSQCPREA VIFRTILDKE ICADPKEKWV KNSINHLDKT SQTFILEPSC LG
<b>Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Stability &amp; Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood monocytes is in a concentration range of 10-50 ng/ml.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

Components	5µg	100µg	500µg
Recombinant Murine Monocyte Chemotactic Protein-5/CCL12	5µg	100µg	500µg

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- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

## Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/ $\mu$ g of rMuMCP-5/CCL12 as determined by LAL method.

## Description

Murine CCL12 is belonging to the CC chemokine family. It shows 66 % amino acid sequence identity to human MCP-1. CCL12 has been shown to be a potent chemoattractant for monocytes and lymphocytes but not neutrophils. At high concentrations, it will also chemoattract eosinophils. CCL12 can induce a calcium flux in human HEK-293 cells transfected with murine CCR2, but can not induce a calcium flux in HEK-293 cells transfected with CCR1, CCR3, or CCR5. That shows the functional receptor of CCL12 is CCR2.

## Reference

1. Sarafi MN, Garcia-Zepeda EA, MacLean JA, et al. 1997. J Exp Med. 185:99-109
2. Jia GQ, Gonzalo JA, Lloyd C, et al. 1996. J Exp Med. 184:1939-51.

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