

## Product Datasheet

### RecombinantMCP-5/CCL12,Mouse (orb1494685)

<b>Catalog Number</b>	orb1494685
<b>Category</b>	Proteins
<b>Description</b>	Monocyte Chemotactic Protein-5(MCP-5), also known as Chemokine (C-C motif) ligand 12(CCL12), is a small cytokine belonging to the CC chemokine family that has been characterized in mice. Due to its similarity with human chemokine MCP-1, sometimes it is called MCP-1-related chemokine. MCP-5 specifically attracts eosinophils, monocytes and lymphocytes.It can signal through the CCR2 receptor.Recombinant Mouse MCP-5/CCL1 produced in CHO cells is a polypeptide chain containing 82 amino acids. A fully biologically active molecule, rmMCP-5/CCL12 has a molecular mass of 11 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.
<b>Form/Appearance</b>	Lyophilized after extensive dialysis against PBS.
<b>Buffer/Preservatives</b>	Lyophilized after extensive dialysis against PBS.
<b>Purity</b>	> 98% as analyzed by SDS-PAGE.
<b>Purification</b>	> 98% as analyzed by SDS-PAGE.
<b>Protein Sequence</b>	GPDAVSTPVTCCYNVVKQKIHVRKLKSYRRITSSQCPREAVIFRTILDKEICADPKEKWV KNSINHLDKTSQTFILEPSCLG
<b>MW</b>	9.3-11 kDa, observed by reducing SDS-PAGE.
<b>Application notes</b>	Reconstituted in ddH2O or PBS at 100 µg/ml.
<b>Endotoxins</b>	0.2 EU/µg, determined by LAL method.
<b>Source</b>	CHO

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### Biological Activity

The EC50 value of mouse MCP-5/CCL12 on Ca<sup>2+</sup> mobilization assay in CHO-K1/G $\alpha$ 15/mCCR2 cells (human G $\alpha$ 15 and mouse CCR2 stably expressed in CHO-K1 cells) is less than 0.5  $\mu$ g/ml.

### Storage

Lyophilized recombinant Mouse MCP-5/CCL12 remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, Mouse MCP-5/CCL12 should be stable up to 1 week at 4°C or up to 2 months at -20°C.

### Note

For research use only

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