

Product Datasheet

Recombinant MCP-5/CCL12, Mouse (orb1494685)

Catalog Number	orb1494685
Category	Proteins
Description	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.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Buffer/Preservatives	Lyophilized after extensive dialysis against PBS.
Purity	> 98% as analyzed by SDS-PAGE.
Purification	> 98% as analyzed by SDS-PAGE.
Protein Sequence	GPDAVSTPVTCYNNVKQKIHVRKLKSYRRITSSQCPREAVIFRTILDKEICADPKEKWVKNSINHLDKTSQFILEPSCLG
MW	9.3-11 kDa, observed by reducing SDS-PAGE.
Application notes	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxins	0.2 EU/µg, determined by LAL method.
Source	CHO

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Biological Activity

The EC50 value of mouse MCP-5/CCL12 on Ca²⁺ mobilization assay in CHO-K1/G₀15/mCCR2 cells (human G₀15 and mouse CCR2 stably expressed in CHO-K1 cells) is less than 0.5 µg/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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