

Bioworld Technology,Inc.

Recombinant MCP-2/CCL8, Human

Catalog Number: BK0126-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

MCP-2 is a member of the chemokines, a group of 70-80 residue proteins sharing substantial sequence similarity. Within the chemokines, MCP-2 belongs to the CC subfamily, and is a member of the Monocyte Chemoattractant Proteins (MCPs), which includes MCP-1, MCP-2, MCP-3, MCP-4, and MCP-5. MCP-2 shares 60% homology with MCP-1, and both proteins can undergo reversible dimerization. The main receptors of MCP-2 are G-protein coupled receptors CCR1 and CCR5. MCP-2 is a potential target in HIV-1 infected human glial cells as it may play a role in the modulation of viral spread in the brain. Recently, researchers found that mouse MCP-2 is expressed in the skin as a novel agonist of CCR8 and plays a role in inflammation.Recombinant eosinophilic human MCP-2/CCL8(rhMCP-2) produced in E.coli is a single non-glycosylated polypeptide chain containing 76 amino acids. A fully biologically active molecule, rhMCP-2 has a molecular mass of 8.9kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

8.9 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE analysis.

Biological Activity:

ED50< 0.5 μ g/mL, measured by the FLIPR assay using CHO cells transfected with human CCR5, the receptor of human CCL8, corresponding to a specific

activity of $> 2 \times 10^{3}$ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

QPDSVSIPITCCFNVINRKIPIQRLESYTRIT-NIQCPKEAVIFKTKRGKEVCADPKER-WVRDSMKHLDQIFQNLKP

Endotoxin:

 $< 0.2 \text{ EU/}\mu g$, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O at 100 μ g/mL.

Storage:

Lyophilized recombinant human MCP-2/CCL8(rhMCP-2) remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, rhMCP-2 remains stable up to 2 weeks at 4 $^{\circ}$ C or up to 3 months at -20 $^{\circ}$ C.

Usage:

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