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Recombinant Human MCP-2

Catalog No: CRM001C **Size:** 1.0 mg

Lot Number: M112803

Molecular Weight: 8.5 kDa

Purity: >95% pure by SDS-PAGE

Biological Activity: The biological activity was determined by measuring the dose dependent mobilization of intracellular calcium (calcium flux) with human THP-1 cells. Significant calcium mobilization is observed with ≥500 ng/mL of recombinant human MCP-2. Human MCP-2 also induces dose dependent chemotaxis of human THP-1 cells with an ED_{50}= 30-100 ng/mL. The optimal concentration should be determined for each specific application.

Formulation: Lyophilized, carrier-free

Sterility: Filtered prior to lyophilization through a 0.22 micron sterile filter.

Endotoxin: <0.1 ng/μg

Source: Produced in *E. coli* and purified by sequential chromatography.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute lyophilized human MCP-2 in sterile, distilled water to 0.1-0.5 mg/mL. These stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilution should be made in medium or buffered solution containing carrier protein, such as PBS with 0.1% BSA.

Suggested Working Dilutions: The optimal concentration should be determined for each specific application.

Storage: Lyophilized human MCP-2 should be stored at 2-8°C, preferably desiccated. Store reconstituted human MCP-2 at ≤ –20°C (not in a frost-free freezer). Keep freeze-thaw cycles to a minimum.

References:

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Gong, X., W. Gong, D.B. Kuhns, A. Ben-Baruch, O.M. Howard, and J.M. Wang (1997) Monocyte chemotactic protein-2 (MCP-2) uses CCR1 and CCR2B as its functional receptors. J. Biol. Chem. 272:11682-11685.

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