Product Name: Biotin-CCL2 (MCP-1)

Catalog Numbers: B-CCL2-2ug B-CCL2-10ug B-CCL2-50ug B-CCL2-100ug

DESCRIPTION

Source	E. coli derived Accession # P13500 (24-99)
Modification	Biotinylated
Predicted Molecular Mass	11,084.72 Da
Extinction Coefficient	14,180 M-1 cm-1

SPECIFICATIONS

Activity	EC50 = 1.26nM determined by Migration Assay of THP-1 cells
Actual Molecular Mass (Mass Spec)	11,085.9 Da by ESI MS
Endotoxin Level	<0.01 EU per 1µg of the protein by the LAL method
Purity	> 97% by HPLC
Formulations	Lyophilized
Carrier Protien	None

PREPARATION AND STORAGE

Reconsititution	Spin tube prior to resuspending. Recommended at 100µg/mL in sterile water
Shipping	Room Temp

Stability and Storage

Avoid repeated freeze-thaw cycles

- 12 months from date of receipt, -20 to -70 °C as supplied.
- Suggest to use immediately after reconstitution
- At least 1 month at -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Description

Monocyte chemoattractant protein-1 (MCP-1) (CCL2) is produced by many cell types at sites of inflammation. It regulates chemotaxis and transendothielial migration of monocytes, as well as memory T cells and natural killer cells by interacting with their membrane surface receptor CCR2. MCP-1 has also been implicated in a number of disease states, such as rheumatoid arthritis, atherosclerosis, autoimmune diseases, tumor progression, and HIV infection.

References:

1. “Monocyte Chemoattractant Protein-1 (MCP-1): An Overview”
Deshmane S., Kremlev S., Amini S., Sawaya B.
J Interferon Cytokine Res. 29: 313–326 (2009)

2. "Human monocyte chemoattractant protein-1 (MCP-1). Full-length cDNA cloning, expression in mitogen-stimulated blood mononuclear leukocytes, and sequence similarity to mouse competence gene JE"
Yoshimura T., Yuhki N., Moore S. K., Appella E., Lerman M. I., Leonard E. J.
FEBS Letters 244: 487–493 (1989)

3. “Monocyte chemoattractant protein-1: A key mediator in inflammatory processes”
Melgarejo E., Medina M., Sánchez-Jiménez F., Urdiales J.
Int J Biochem Cell Biol 41: 998-1001 (2009)