Product Name: Biotin-CCL7 (MCP-3)

Catalog Numbers: B-CCL7-2ug B-CCL7-10ug B-CCL7-50ug B-CCL7-100ug

DESCRIPTION

Source	E. coli derived Accession # P80098 (24-99)
Modification	Biotinylated
Predicted Molecular Mass	11,374.1545 Da
Extinction Coefficient	14,180 M-1 cm-1

SPECIFICATIONS

Activity	EC50 = 1.4-2.6 nM determined by migration assay with cells expressing recombinant CCR2
Actual Molecular Mass (Mass Spec)	11,375.4230 Da by ESI Mass Spec
Endotoxin Level	<0.01 EU per 1µg of the protein by the LAL method
Purity	> 97% by SDS PAGE
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 chemotactic protein 3 (MCP3)(CCL7) is secreted by monocytes and certain tumer cell lines. It is a chemoattractant for monocytes and other leukocytes. MCP3 binds and signals through several cell surface receptors including CCR1, CCR2, CCR3, and appears to be an antagonist for CCR5.

References:

1. “Monocyte chemotactic protein-3” Menten P., Wuyts A., Van Damme J Eur. Cytokine Netw. 12:554-560 (2002)

2. "Human monocyte chemotactic protein-3 (MCP-3): molecular cloning of the cDNA and comparison with other chemokines". Opdenakker G., Froyen G., Fiten P., Proost P., Van Damme J. Biochem. Biophys. Res. Commun. 191: 535–42 (1993)

3. "CCR5 binds multiple CC-chemokines: MCP-3 acts as a natural antagonist. "Blanpain C., Migeotte I., Lee B., Vakili J., Doranz B.J., Govaerts C., Vassart G., Doms R.W., Parmentier M.Blood 94:1899-1905 (1999)