Product Name: Biotin-CCL3 (MIP-1a)

Catalog Numbers: B-CCL3-2ug B-CCL3-10ug B-CCL3-50ug B-CCL3-100ug

DESCRIPTION

Source	E. coli derived Accession # P10147 (24-92)
Modification	Biotinylated
Predicted Molecular Mass	10,135.342 Da
Extinction Coefficient	15,460 M-1 cm-1

SPECIFICATIONS

Activity	EC50 = 1.1-2.6nM determined by Migration Assay of recombinant CCR5 containing cells
Actual Molecular Mass (Mass Spec)	10,135.342 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

Reconsitituion	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

Macrophage inflammatory proteins 1-α (MIP1α)(CCL3) binds to cell surface receptors CCR1 and CCR5. It is proinflammatory, leading to chemotaxis and activation of immune cells. It also inhibits proliferation of hematopoietic stem cells. Moreover, by binding to one of the HIV coreceptors, CCR5, it suppresses HIV infection.

References:

1. “Macrophage inflammatory protein-1”
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3. “Identification and characterization of an inhibitor of haemopoietic stem cell proliferation”
Graham G.J., Wright E.G., Hewick R., Wolpe S.D., Wilkie N.M., Donaldson D., Lorimore S., Pragnell I.B.
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4. “Mitogenic activation of human T cells induces two closely related genes which share structural similarities with a new family of secreted factors”
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