<table>
<thead>
<tr>
<th>Product Name:</th>
<th>CCL3 (MIP-1α)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog Numbers:</td>
<td>CCL3-2ug CCL3-2ug CCL3-10ug CCL3-50ug</td>
</tr>
</tbody>
</table>

**DESCRIPTION**

**Source**
E. coli derived Accession # P10147 (24-92)

**Modification**
None

**Actual Molecular Mass**
Mol weight confirmed by mass spec

**Predicted Molecular Mass**
7.716 kDa

**Extinction Coefficient**
10010 M-1 cm-1

**Protein Sequence**
SLAADTPACTCFSYTARQIPQNFIAFYETSSQCSKPGVIFLTKRSQVCAQPSEEWVQKY VSDELSA

**SPECIFICATIONS**

**Activity**
EC50 = 0.2 nM determined by Migration Assay in cells expressing recombinant CCR5

**Endotoxin Level**
<0.01 EU per 1µg of the protein by the LAL method

**Purity**
> 97% by SDS PAGE

**Formulations**
Lyophilized

**Carrier Protein**
None

**PREPARATION AND STORAGE**

**Reconstitution**
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
- 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”
2. “Identification of RANTES, MIP-1, and MIP-1[1] as the major HIV-suppressive factors produced by CD8+ T cells”
3. “Identification and characterization of an inhibitor of haemopoietic stem cell proliferation”
4. “Mitogenic activation of human T cells induces two closely related genes which share structural similarities with a new family of secreted factors”