



***Recombinant Human MIP-1 $\alpha$  / CCL3***  
*(Macrophage Inflammatory Protein-1 alpha)*

*Catalog Number: 100-15*  
*Accession Number: P10147*

***Specifications and Uses:***

**Alternate Names:** CCL3, LD78 $\alpha$

**Description:**

Macrophage Inflammatory Protein-1 alpha (MIP-1 $\alpha$ ), also known as CCL3, is produced by macrophages and is thought to induce inflammatory responses, including superoxide production by neutrophils. MIP-1 $\alpha$  can exist as a naturally occurring heterodimer with MIP-1 $\beta$  and has been shown to have antiviral activity against HSV-1. Recombinant human MIP-1 $\alpha$  is a non-glycosylated protein, containing 70 amino acids, with a molecular weight of 7.8 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant human MIP-1 $\alpha$  is lyophilized with no additives.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity (typically  $\geq$  97%) determined by:**

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically  $\leq$  1 EU/ $\mu$ g protein.

**Biological Activity:**

The activity is determined by its ability to chemoattract human PBMCs or THP-1 cells and is typically in the range of 0.5 - 8 ng/mL.

**AA Sequence:**

ASLAADTPTA CCFSYTSRQI PQNFIADYFE TSSQCCKPGV IFLTKRSRQV CADPSEEWVQ KYVSDLELSA

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

Gentaur Molecular Products  
Voortstraat 49  
1910 Kampenhout, Belgium