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### **Macrophage Inflammatory Protein-1 Alpha Human Recombinant (CCL3), His Tag CHEMOKINE**

**Catalog Number:** PRP-347  
**Quantity:** 2 micrograms, 10 micrograms, 1 milligram  
**Format:** Sterile-filtered clear solution  
**Host:** *E. coli*

#### **Background:**

Macrophage Inflammatory Proteins (MIP) belong to the family of chemotactic cytokines known as chemokines. In humans, there are two major forms, MIP-1 $\alpha$  and MIP-1 $\beta$  that are now officially named CCL3 and CCL4 respectively. Both are major factors produced by macrophages after they are stimulated with bacterial endotoxins. They activate human granulocytes (neutrophils, eosinophils and basophils) which can lead to acute neutrophilic inflammation. They also induce the synthesis and release of other pro-inflammatory cytokines such as interleukin 1 (IL-1), IL-6 and TNF- $\alpha$  from fibroblasts and macrophages. The genes for CCL3 and CCL4 are both located on human chromosome 17.

#### **Specificity and Preparation:**

Macrophage Inflammatory Protein-1 alpha (MIP-1a) His Human Recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 68 amino acids and having a molecular mass of 7820 Dalton with an amino-terminal hexahistidine tag. The MIP-1a-His is purified by proprietary chromatographic techniques. Purity is greater than 95.0% as determined by RP-HPLC and SDS-PAGE. CCL3 His-Tag is supplied in 1x PBS and 50% glycerol.

#### **Usage and Storage:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

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