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## Product Data Sheet

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Product Name: MIP 1a Human, His  
 Cat. No.: GP21175  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Small inducible cytokine A3; CCL3; Macrophage inflammatory protein 1-alpha; MIP-1-alpha; Tonsillar lymphocyte LD78 alpha protein; G0/G1 switch regulatory protein 19-1; G0S19-1 protein; SIS-beta; PAT 464.1; chemokine (C-C motif) ligand 3; MIP1A; SCYA3; G0S19-1; LD78ALPHA.		
Formulation	CCL3 His-Tag is supplied in 1x PBS and 50% glycerol.		

### Introduction

Macrophage Inflammatory Proteins (MIP) belong to the family of chemotactic cytokines known as chemokines. In humans, there are two major forms, MIP-1a and MIP-1b 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.

### Stability

Store CCL3 at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

### Background

Macrophage Inflammatory Protein-1 alpha 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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