



Product Datasheet

Product Name	Recombinant Human Macrophage Inflammatory Protein-1 Alpha (CCL3), His Tag
Cata No	CB500079
Source	<i>Escherichia Coli</i> .
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.

Description

1 Macrophage Inflammatory Proteins (MIP) belong to the family of chemotactic cytokines known as chemokines. In humans, there are two major forms, MIP-1 α and MIP-1 β 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- α from fibroblasts and macrophages. The genes for CCL3 and CCL4 are both located on human chromosome 17.

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.

Physical Appearance

Sterile Filtered clear solution.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE

Formulation

CCL3 His-Tag is supplied in 1x PBS and 50% glycerol.

Stability

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

*** For Non-Clinical Research Use Only ***