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Macrophage Inflammatory protein-1 alpha (CCL3), His Tag, mouse recombinant (rmMIP-1a-His)

Catalog No: 97586
Lot No: XXXXX
Source: *E. coli*
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

Background

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- α from fibroblasts and macrophages. The genes for CCL3 and CCL4 are both located on human chromosome 17.

Description

MIP-1a mouse recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 93 amino acids (24-92) and having a molecular mass of 10.4 kDa. MIP-1a is fused to a 24 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered clear solution.

Formulation

The MIP-1a protein solution (0.5 mg/ml) containing 20 mM sodium citrate buffer (pH 3.5) and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSMAPYGAD TPTACCFSYS RKIPRQFIVD YFETSSLCSQ PGVIFLTKRN RQICADSKET
WVQEYITDLE LNA

Usage

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