
Product Data Sheet

Product Name: MIP 1a Mouse, His
 Cat. No.: GP21177
 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; TY-5; SIS-alpha; Heparin-binding chemotaxis protein; L2G25B.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAPYGAD TPTACCFSYS RKIPRQFIVD YFETSSLCSQ PGVIFLTRN RQICADSKET WVQEYITDLE LNA.		
Formulation	MIP-1a protein solution (0.5mg/ml) containing 20mM Sodium citrate buffer (pH 3.5) and 10% 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-a from fibroblasts and macrophages. The genes for CCL3 and CCL4 are both located on human chromosome 17.

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.

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

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Background

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

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