
Product Data Sheet

Product Name: MIP 3a Mouse
 Cat. No.: GP21189
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Small inducible cytokine A20 precursor; CCL20; Macrophage inflammatory protein 3 alpha; MIP-3-alpha; Liver and activation-regulated chemokine; CC chemokine LARC; Beta chemokine exodus-1; CKb4; LARC; ST38; MIP3A; MIP-3a; SCYA20; C-C motif chemokine 20; CC chemokine ST38; exodus-1.		
Amino Acid Sequence	ASNYDCCLSY IQTPLPSRAI VGFTRQMADE ACDINAIIFH TKKRKSVCAD PKQNWVKRAV NLLSLRVKKM.		
Solubility	It is recommended to reconstitute the lyophilized MIP-3a in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.		

Introduction

CCL20 is a chemotactic factor that draws lymphocytes & neutrophils, rather than monocytes. MIP-3 alpha inhibits proliferation of myeloid progenitors in colony formation assays. MIP3A plays a role in the formation and function of the mucosal lymphoid tissues by attracting lymphocytes and dendritic cells towards epithelial cells. C-terminal processed forms have been shown to be equally chemotactically active for leukocytes. CCL20 holds antibacterial activity e.coli atcc 25922 and s.aureus atcc 29213. CCL20 gene transcription is activated by H. pylori, which activates NF-kappaB through intracellular signal pathway which involves IkappaB kinase and NF-kappaB-inducing kinase. MIP-3 alpha is involved in chemokine-mediated lymphocyte trafficking during gastric inflammation in Helicobacter infection. CCL20 expression is involved in the recruitment of CD45R0-positive T cell subsets into the intestinal lamina propria. MIP-3A

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

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is in charge of the advancement of pulpal inflammation through the recruitment of C-C motif Receptor 6-expressing lymphocytes Vaginal epithelial cells respond to factors present in semen by secreting MIP-3 alpha, which increases langerhans cells recruitment during HIV transmission.

Biological Activity

The Activity is calculated by its ability to chemoattract primary human T cells at 2-20ng/ml, corresponding to a specific activity of 50,000-500,000 units/mg.

Stability

Lyophilized MIP-3a although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution CCL-20 should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Background

Macrophage Inflammatory Protein-3 alpha Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 70 amino acids and having a molecular mass of 7.9 kDa. The MIP-3a is purified by proprietary chromatographic techniques.

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