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## Product Data Sheet

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Product Name: MIP 3a Human, His

Cat. No.: GP21188

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	S 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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MASNFDCLG YTDRILHPKF IVGFTRQLAN EGCDINAIIF HTKKKLSVCA NPKQTWVKYI VRLLSKKVKN M.		
Formulation	The MIP 3a solution (0.25 mg/ml) contains Phosphate Buffered Saline pH7.4 and 10% glycerol.		

**Introduction**

CCL-20 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. CCL-20 holds antibacterial activity e.coli atcc 25922 and s.aureus atcc 29213. CCL-20 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. CCL-20 expression is involved in the recruitment of CD45RO-positive T cell subsets into the intestinal lamina propria. MIP-3A 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.

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

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### 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.

### Background

MIP 3a Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 91 amino acids (27-96 a.a.) and having a molecular mass of 10.3kDa. The MIP 3a is purified by proprietary chromatographic techniques.

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