



## Macrophage Inflammatory protein-3 alpha (CCL20), His Tag, human recombinant (rHuMIP-3a-His)

**Catalog No:** 97539  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**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

### Background

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 I kappaB 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.

### Description

Macrophage Inflammatory protein-3 alpha human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 91 amino acids (27-96) and having a molecular mass of 10.3 kDa. MIP 3a is fused with a 21 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered colorless solution.

### Formulation

The MIP 3a solution (0.25 mg/ml) contains phosphate buffered saline pH 7.4 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 85.0% as determined by SDS-PAGE.

### Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MASNFDCCLG YTDRI LHPKF IVGFTRQLAN EGCDINAIIF HTKKKLSVCA NPKQTWVKYI  
VRLLSKKVKN M

### Usage

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