



11 Park Drive, Suite 12
Boston, MA 02215

Mouse MIP-3 Alpha (Macrophage Inflammatory Protein-3 alpha) Recombinant (CCL20)

ORDERING INFORMATION

Catalog No: rAP-0094a;

Size: 5 µg; 20 µg

Storage: <- 20° C

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.

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 against *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 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 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.

Source:

Escherichia Coli.

Physical Appearance:

Formulation:

Lyophilized from a concentrated (1mg/ml) solution in water containing no additives.

Solubility:

It is recommended to reconstitute the lyophilized MIP-3a in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Contact & Ordering Information: Angio-Proteomie, 11 Park Drive, Suite 12, Boston, MA 02215, USA. Fax: (480) 247-4337, angioproteomie@gmail.com



11 Park Drive, Suite 12
Boston, MA 02215

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.**

Purity:

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Amino acid sequence:

ASNYDCCLSY IQTPLPSRAI VGFTRQMADE ACDINAIIFH TKKRKSVCAD PKQNWVKRAV
NLLSLRVKKM

Biological Activity:

The Activity is calculated by the ability to chemoattract Mouse CCR6 transfected HEK/293 cells at a concentration of 0.1-10 ng/ml.

Usage:

ProSpec's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals