

Recombinant Human MIP-3 alpha/CCL20

Information

Gene ID	6364
Accession #	P78556
Alternate Names	LARC, Beta-chemokine Exodus-1, Liver and Activation-regulated Chemokine
Source	<i>Escherichia coli</i> .
M.Wt	Approximately 8.0 kDa, a single non-glycosylated polypeptide chain containing 70 amino acids.
AA Sequence	ASNFDCCLGY TDRILHPKFI VGFTRQLANE GCDINAIIFH TKKKLSVCAN PKQTWVKYIV RLLSKKVKNM
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration range of 10-50 ng/ml.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	5 µg	100 µg	500 µg
Recombinant Human MIP-3 alpha/CCL20	5 µg	100 µg	500 µg

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuMIP-3α/CCL20 as determined by LAL method.

Description

CCL20, also named LARC (Liver and Activation-regulated Chemokine), is encoded by CCL20 located on chromosome 2 in humans. The expression can be induced by LPS and some inflammatory cytokines, and it is at a high level in lymph nodes, PBL, fetal liver, fetal lung, appendix and so on. CCL20 has functions of chemotactic towards lymphocytes and dendritic cells. Additionally, it promotes the adhesion of memory CD4+ T cells and inhibits colony formation of bone marrow myeloid immature progenitors. CCL20 elicits its effects by binding with CCR6 receptor.

Reference

1. Chavan R, Marfatia KA, An IC, et al. 2006. J Virol, 80: 7676-87.
2. Hosokawa Y, Hosokawa I, Ozaki K, et al. 2005. Clin Exp Immunol, 142: 285-91.
3. Hirota K, Yoshitomi H, Hashimoto M, et al. 2007. J Exp Med, 204: 2803-12.
4. Francis JN, Sabroe I, Lloyd CM, et al. 2008. Clin Exp Immunol, 152: 440-7.

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

