

Recombinant Murine Macrophage Inflammatory Protein-3 alpha/CCL20

Information

Gene ID	20297
Accession #	O89093
Alternate Names	LARC, Beta-chemokine Dxodus-1, Liver and Activation-regulated Chemokine
Source	Escherichia coli.
M.Wt	Approximately 8.0 kDa, a single non-glycosylated polypeptide chain containing 70 amino acids.
AA Sequence	ASNYDCCLSY IQTPLPSRAI VGFTQRMADE ACDINAIIFH TKKRKSVCAD PKQNWVKRAV NLLSLRVKKM
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 PBS, pH 7.4.
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 biologically active determined by a chemotaxis bioassay using human CCR6 transfected murine BaF3 cells is in a concentration range of 0.1-10 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	5µg	100µg	500µg
Recombinant Murine Macrophage Inflammatory Protein-3 alpha/CCL20	5µg	100µg	500µg

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- 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	> 96 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rMuMIP-3α/CCL20 as determined by LAL method.

Description

CCL20, also named LARC (Liver and Activation-regulated Chemokine), is encoded by CCL20 located on chromosome 1 in mouse. 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
5. Shao XA, Yuang FH, Wang Y, et al. 2008. Zhongguo Shi Yan Xue Ye Xue Za Zhi, 16: 170-4.

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