

Recombinant Murine Exodus-2/CCL21

Information

Gene ID	65956
Accession #	P86792
Alternate Names	6Ckine, Beta-chemokine Exodus-2, SLC
Source	Escherichia coli.
M.Wt	Approximately 12.1 kDa, a single, non-glycosylated polypeptide chain containing 110 amino acids.
AA Sequence	SDGGGQDCCL KYSQKKIPYS IVRGYRKQEP SLGCPIAIL FLPRKHSKPE LCANPEEGWV QNLMRRLDQP PAPGKQSPGC RKNRGTSKSG KKGKGSKGCK RTEQTQPSRG
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, 150 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 murine T-lymphocytes is in a concentration range of 10-100 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 Exodus-2/CCL21	5µg	100µg	500µg

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 rMuExodus-2/CCL21 as determined by LAL method.

Description

CCL21 is encoded by CCL21 gene that is located in Chr. 4 and shows 21-33 % identity to other CC chemokines. This chemokine contains the four conserved cysteines characteristic of β chemokines plus two additional cysteines in its unusually long carboxylterminal domain. Human and mouse CCL21 are highly conserved, exhibiting 86 % amino acid sequence identity. CCL21 is highly expressed in lymph nodes of certain endothelial cells, and in the spleen and appendix. It elicits effects by binding with CCR7, having functions of T and B lymphocytes chemotaxis and inhibiting hematopoiesis.

Reference

1. Christopherson KW, 2nd, Campbell JJ, Hromas RA. 2001. Blood, 98: 3562-8
2. Nguyen-Hoai T, Baldenhofer G, Sayed Ahmed MS, et al. 2012. Cancer Gene Ther, 19: 69-76
3. Bonacchi A, Petrai I, Defranco RM, et al. 2003. Gastroenterology, 125: 1060-76
4. Christopherson KW, 2nd, Hood AF, Travers JB, et al. 2003. Blood, 101: 801-6
5. Banas B, Wornle M, Merkle M, et al. 2004. Kidney Int, 66: 2256-63.

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