

## Recombinant Human Exodus-2/CCL21

### Information

<b>Gene ID</b>	6366
<b>Accession #</b>	O00585
<b>Alternate Names</b>	6Ckine, Beta-chemokine Exodus-2, SLC
<b>Source</b>	<i>Escherichia coli</i> .
<b>M.Wt</b>	Approximately 12.2 kDa, a single, non-glycosylated polypeptide chain containing 111 amino acids.
<b>AA Sequence</b>	SDGGAQDCCL KYSQRKIPAK VVRSYRKQEP SLGCSIPAIL FLPRKRSQAE LCADPKELWV QQLMQHLDKT PSPQKPAQGC RKDRGASKTG KKGKGSKGCK RTERSQTPKG P
<b>Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Stability &amp; Storage</b>	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.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.0.
<b>Reconstitution</b>	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.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human lymphocytes is in a concentration range of 10-100 ng/ml.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

Components	5 µg	100 µg	500 µg
Recombinant Human Exodus-2/CCL21	5 µg	100 µg	500 µg

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## Quality Control

Purity	> 95 % by SDS-PAGE analyses.
Endotoxin	Less than 1 EU/μg of rHuExodus-2/CCL21 as determined by LAL method.

## Description

CCL21 is encoded by CCL21 gene that is located in Chr. 9 and shows 21-33 % identity to other CC chemokines. This chemokine contains the four conserved cysteines characteristic of  $\beta$  chemokines plus two additional cysteines in its unusually long carboxylterminal domain. 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. Bonacchi A, Petrai I, Defranco RM, et al. 2003. Gastroenterology, 125: 1060-76.
3. Christopherson KW, 2nd, Hood AF, Travers JB, et al. 2003. Blood, 101: 801-6.
4. Banas B, Wornle M, Merkle M, et al. 2004. Kidney Int, 66: 2256-63.

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