

CCL21

Recombinant Human CCL21 / Exodus-2

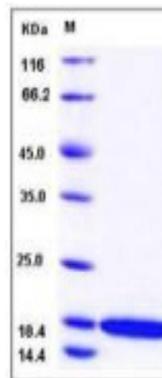
Catalog No.	CRH495A CRH495B CRH495C	Quantity:	20 µg 50 µg 1.0 mg
Alternate Names:	C-C motif chemokine 21, 6Ckine, Beta-chemokine exodus-2, Secondary lymphoid-tissue chemokine, SLC, Small-inducible cytokine A21		
Description:	<p>Chemokines are a family of small chemotactic cytokines, or proteins secreted by cells. Chemokines share the same structure similarities such as small size, and the presence of four cysteine residues in conserved locations in order to form their 3-dimensional shape. Some of the chemokines are considered pro-inflammatory which can be induced to recruit cells of the immune system to a site of infection during an immune response, while others are considered homeostatic and are implied in controlling the migration of cells during normal processes of tissue maintenance and development. There are four members of the chemokine family: C-C chemokines, C chemokines, CXC chemokines and CX3C chemokines. The C-C chemokines have two cysteines nearby the amino terminus. There have been at least 27 distinct members of this subgroup reported for mammals, called C-C chemokine ligands-1 to 28. Chemokine ligand 21(CCL21), also called Exodus-2 is a small cytokine belonging to the C-C chemokine family. CCL21 takes its name 6Ckine for its constitutively six conserved cysteine residues but not four cysteines typical to chemokines. CCL21 has function in inducing vigorous calcium migrations and chemotactic responses.</p>		
UniProt ID:	O00585		
Protein Construction:	A DNA sequence encoding the amino acids (Gly 28-Asn 93) of human CCL14 was expressed, with a polyhistidine tag at the N-terminus.		
Source:	Baculovirus-Insect Cells		
Formulation:	Lyophilized from sterile 40mM Tris, 0.3 M NaCl, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
Molecular Weight:	The secreted recombinant human CCL21 consists of 111 amino acids and predicts a molecular mass of 12.3 kDa. It migrates as an approximately 18 kDa band in SDS-PAGE under reducing conditions.		
Purity:	> 98 % as determined by SDS-PAGE		
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method		
Biological Activity:	Measured by its binding ability in a functional ELISA . Immobilized human CCL21 at 2 µg/ml (100 µl/well) can bind human IGFBP7 with a linear rangel of 0.16-4 µg/ml.		
Predicted N-terminal:	Ser 24		



Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. **DO NOT VORTEX.** Allow several minutes for complete reconstitution.

Storage & Stability: Stable for up to 1 year from date of receipt at -20°C to -80°C. After reconstitution, store working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

SDS-PAGE



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