

General Information

Synonyms	C-C motif chemokine 20; CCL20; chemokine (C-C motif) ligand 20; CKb4; exodus-1; LARC
Accession #	O89093
Source	Human embryonic kidney cell, HEK293-derived mouse mCCL20/MIP-3A protein
	Ala27-Met96
Predicted Molecular weight	8.0 kDa

Components and Storage

Formulation	Solution protein. Dissolved in sterile PBS buffer . This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.
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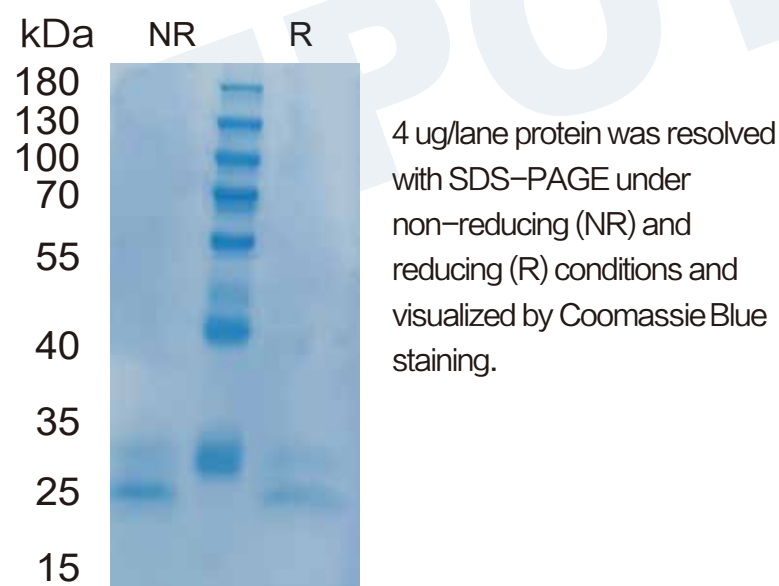
Storage and Stability	Avoid repeated freeze-thaw cycles. It is recommended that the protein be aliquoted for optimal storage. 12 months from date of receipt, -20 to -70 ° C as supplied.
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Shipping	Shipping with dry ice
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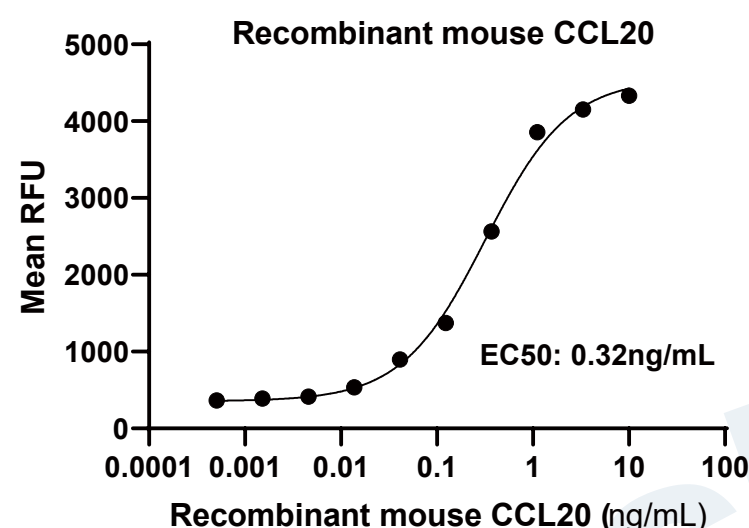
Quality

Purity	> 95%, determined by SDS-PAGE
Endotoxin Level	<0.010 EU per 1 ug of the protein by the LAL method
Activity	Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with human CCR6. The EC50 for the chemotactic effect is 0.1-1 ng/mL.

SDS-PAGE



Bioactivity



Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with human CCR6.

Background

CCL20, also known as LARC (Liver and Activation-regulated Chemokine) and as Exodus, is one of many novel beta chemokines identified through bioinformatics. Mouse MIP-3 alpha cDNA encodes a 97 amino acid residue precursor protein with a 27 aa residue putative signal peptide that is predicted to be cleaved to form the 70 aa residue mature secreted protein. MIP-3 alpha is distantly related to other beta chemokines (20 - 28% aa sequence identity). Mouse MIP-3 alpha shares approximately 71 and 63% amino acid sequence homology with rat and human MIP-3 alpha, respectively. MIP-3 alpha has been shown to be expressed predominantly in lymph nodes, appendix, PBL, fetal liver, fetal lung, and epithelial cells of intestinal tissues. The expression of MIP-3 alpha is strongly up-regulated by inflammatory signals and down-regulated by the anti-inflammatory cytokine IL-10. Synthetic or recombinant MIP-3 alpha has been shown to be chemotactic for lymphocytes and dendritic cells, and inhibits proliferation of myeloid progenitors in colony formation assays. MIP-3 alpha has now been shown to be a unique functional ligand for CCR-6 (previously referred to as GPR-CY4, CKR-L3, or STRL22 orphan receptor), a chemokine receptor that is selectively and highly expressed in human dendritic cells derived from CD34+ cord blood precursors.

Reference

1. Baba, M. et al. (1997) J. Biol. Chem. 272:14893.
2. Hromas, R. et al. (1997) Blood 89:3315.
3. Greaves, D. R. et al. (1997) J. Exp. Med. 186: 857.
4. Tanaka, Y. et al. (1999) Eur. J. Immunol. 29:633.

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