Datasheet

Cat. No. P1219

Recombinant Human MIP-4/CCL18

Information

Accession #	P1219
Alternate Names	AMAC-1, PARC, DC-CK1
Source	*Escherichia coli.*
Protein sequence	AQVGTNKELC CLVYTSWQIP QKFIVDYSET SPQCPKPGVI LLTKRGRQIC ADPNKKWVQK YISDLKLNA
M.Wt	7.9 kDa
Appearance	Solution protein
Stability & Storage	Avoid repeated freeze-thaw cycles. It is recommended that hat the protein be aliquoted for optimal storage.- 12 months from date of receipt, -20 to -70°C as supplied.
Concentration	0.1-1.0 mg/mL
Formulation	Dissolved in Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. This solution can be diluted into other aqueous buffers.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration of 1.0-10 ng/ml.
Shipping Condition	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Quality Control

Purity	> 95%, determined by SDS-PAGE.
Endotoxin	<0.1 EU per 1 ug of the protein by the LAL method.

Description

Human CCL18 is encoded by the CCL18 gene located on the chromosome 17. As also named MIP-4, it shares 61 % sequence identity to human MIP-1α. CCL18 is mainly expressed by lung and some lymphoid tissues like lymph nodes express CCL18 at low level. It is chemotactic for both activated (CD3+) T cells and nonactivated (CD14-) lymphocytes, but not for monocytes or granulocytes. Involved in B-cell migration into B-cell follicles in lymph nodes. CCL18 plays a role in both humoral and cell-mediated immunity responses.

Reference

[1]. Hieshima K, Imai T, Baba M, et al. 1997. J Immunol, 159: 1140-9.

[2]. Chenivesse C, Chang Y, Azzaoui I, et al. 2012. J Immunol, 189: 128-37.

[3]. Azzaoui I, Yahia SA, Chang Y, et al. 2011. Blood, 118: 3549-58.

[4]. Adema GJ, Hartgers F, Verstraten R, et al. 1997. Nature, 387: 713-7.

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