Active Secondary Lymphoid Tissue Chemokine (SLC) Instruction Manual

SBPB243Hu01

Homo sapiens (Human)

Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Traits	Freeze-dried powder
Purity	> 97%
Isoelectric Point	10.0
Applications	Cell culture; Activity Assays.

ACTIVITY TEST

A B

Secondary Lymphoid-tissue Chemokine (SLC) is a recently identified CC chemokine that is constitutively expressed in various lymphoid tissues and is a potent and specific chemoattractant for lymphocytes. Thus, chemotaxis assay used 24-well microchemotaxis system was undertaken to detect the chemotactic effect of SLC on the human T-lymphocyte leukemia cell line Jurkat. Briefly, Jurkat cells were seeded into the upper chambers (100uL cell suspension,106 cells/mL in RPMI 1640 with FBS free) and SLC (1ng/mL, 15ng/mL and 150ng/mL diluted separately in serum free RPMI 1640) was

added in lower chamber with a polycarbonate filter (8um pore size) used to separate the two compartments. After incubation at 37℃ with 5% CO2 for 1h, the filter was removed, then cells in low chamber were observed by inverted microscope at low magnification (×100) and the number of migrated cells were counted at high magnification (×400) randomly (five fields for each filter). Result shows SLC is able to induce migration of Jurkat cells. The migrated Jurkat cells in low chamber at low magnification (×100) were shown in Figure 1. Five fields of each chamber were randomly chosen, and the migrated cells were counted at high magnification (×400). Statistical results were shown in Figure 2. The optimum chemotaxis of SLC occurs at 15-150ng/mL.(A)Jurkat cells were seeded into the upper chambers and serum free RPMI 1640 with 150ng/mL SLC was added in lower chamber, then cells in lower chamber were observed at low magnification (×100) after incubation for 1h;
(B)Jurkat cells were seeded into the upper chambers and serum free RPMI 1640 without SLC was added in lower chamber, then cells in lower chamber were observed at low magnification (×100) after incubation for 1h.
Figure. The chemotactic effect of SLC on Jurkat cells

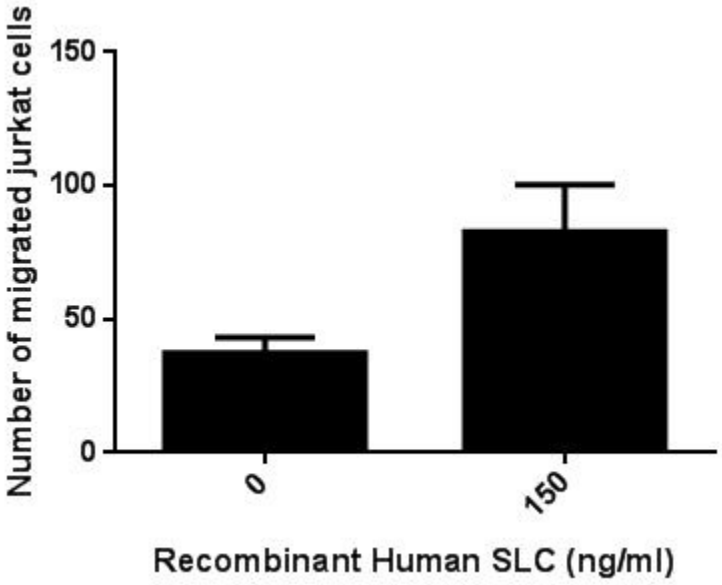

Figure .The chemotactic effect of SLC on Jurkat cells.

USAGE

Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

STORAGE

Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.

STABILITY

The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

Image

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                          SDGGAQD CCLKYSQRKI PAKVVRSYRK
QEPSLGCSIP AILFLPRKRS QAELCADPKE LWVQQLMQHL DKTPSPQKPA
QGCRKDRGAS KTGKKGKGSK GCKRTERSQT PKGP
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Figure. Gene Sequencing (Extract)

Image

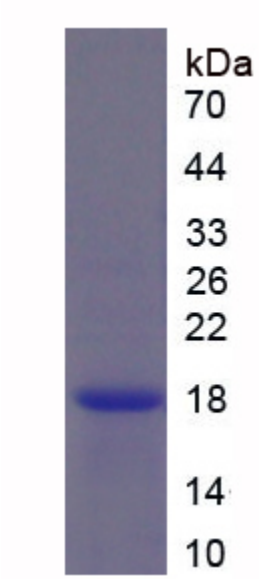

Figure. SDS-PAGE

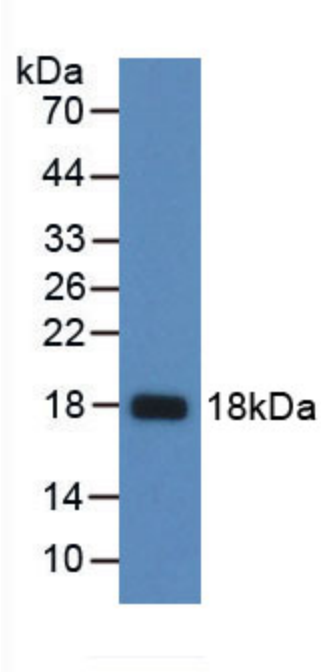

Figure. Western Blot

[IMPORTANT NOTE]

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.