

Datasheet for ABIN2666891
CCL21 Protein (AA 24-133)



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Overview

Quantity:	10 µg
Target:	CCL21
Protein Characteristics:	AA 24-133
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Flow Cytometry (FACS)

Product Details

Purity:	> 98 % , as determined by Coomassie stained SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 0.01 ng per µg cytokine as determined by the LAL method.

Target Details

Target:	CCL21
Alternative Name:	CCL21 (CCL21 Products)
Background:	CCL21 is a CC chemokine highly expressed in lymph nodes. CCL21 is only 32 % identical to CCL19 at the amino acid level, nevertheless, these chemokines bind to the same receptor CCR7. CCL21 has a unique extension of about 30 amino acids with two extra cysteine residues in its carboxyl terminus. CCL21 is expressed in synovial tissue in rhematoid arthritis (RA), and it

Target Details

has been suggested that CCL21, but not CCL19, induces human microvascular endothelial cell (HMVEC) migration and/or tube formation. In addition, it has been reported that sustained high concentrations of either soluble or immobilized CCL19 and CCL21 inhibit T cell proliferation and IL-2 secretion.

Molecular Weight: The 110 amino acid recombinant protein has a predicted molecular mass of approximately 12 kDa. The DTT-reduced and non-reduced protein migrate at approximately 16 kDa by SDS-PAGE. The N-terminal amino acid is Serine.

Pathways: [Regulation of Actin Filament Polymerization](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Biological activity: Bioactivity was measured by its ability to chemoattract Baf3-hCCR7 cells in a dose dependent manner.

Restrictions: For Research Use only

Handling

Format: Liquid

Reconstitution: For maximum results, quick spin vial prior to opening. Stock solutions should be prepared at no less than 10 µg/mL in sterile buffer (PBS, HPBS, DPBS, and EBSS) containing carrier protein such as 1 % BSA or HSA. After dilution, the cytokine can be stored between 2 °C and 8 °C for one month or from -20 °C to -70 °C for up to 3 months.

Buffer: 0.22 µm filtered protein solution is in PBS.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -20 °C

Storage Comment: Unopened vial can be stored between 2°C and 8°C for three months, at -20°C for six months, or at -70°C for one year.