Recombinant Human CCL4 / C-C Motif Chemokine Ligand 4, Animal Free & Carrier Free

Cat #: C-CYP345

Size: 5μg, 20μg, 100μg, 500μg, 1mg

Shipping: Blue Ice

Product Overview

CCL4 act as an important proinflammatory cytokine during acute and chronic inflammatory responses. CCL4 also play a role as an attractant NK cells, dendritic cells, monocytes, and lymphocytes to sites of injury and inflammation. As CCL4 conducts signaling through G-protein-coupled receptor CCR5, which is a major co-receptor for M-tropic HIV strains. Thus, binding of CCL4 to CCR5 inhibits HIV entry and reduces the cell surface expression of CCR5. CCL4 has been identified as one of the major anti-HIV factors produced by CD8+ T cells.

Product Information

Source: *Escherichia Coli*.

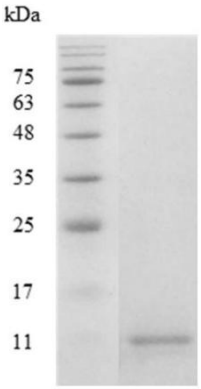
Purity: >95% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measure by its ability to chemoattract BaF3 cells transfected with human CCR5. The ED50 for this effect is <10 ng/mL.

Endotoxin: <0.1EU per 1μg of the protein by the LAL method.

Amino acid sequence: APMGSDPPTACCFSYTARKLPHNFVVDYYETSSLCSQPAVVFQTKRGKQVCADPSESWVQEYVYDLELN.

Formulation: Lyophilized from a sterile filtered aqueous solution in 50mM Tris and 150mM NaCl, pH 8.5.



SDS-PAGE analysis of recombinant human CCL4

Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.

2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H_2O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.

3. The reconstituted solution can be stored at 2-8°C for up to 1 week.

4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 μg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.