

CCL4 Protein, Human (P.pastoris, His)

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| Cat. No.: | HY-P74342 |
| Synonyms: | MIP-1 β /CCL4; C-C motif chemokine 4; LAG-1; SCYA4 |
| Species: | Human |
| Source: | P. pastoris |
| Accession: | P13236 (A24-Q92) |
| Gene ID: | 6351 |
| Molecular Weight: | 12-16 kDa |

PROPERTIES

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| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 μ m filtered solution of 0.1 % TFA, 14 % CAN.. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. |
| Endotoxin Level | <1 EU/ μ g, determined by LAL method. |
| Reconstitution | It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping | Room temperature in continental US; may vary elsewhere. |

DESCRIPTION

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| Background | <p>CCL4, also known as macrophage inflammatory protein (MIP-1β), belongs to the CC chemokine family and is a protein encoded in humans by the CCL4 gene, which belongs to the 17q11-q21 region of chromosome 17 and has a molecular weight of approximately 8-10 kDa. CCL4 can be produced by monocytes, B cells, T cells, NK cells, dendritic cells, neutrophils, fibroblasts, endothelial cells, and epithelial cells^[1]. CCL4 acts as a chemokine that binds to the G protein-coupled receptors CCR5 and CCR8 and acts as a chemoattractant for natural killer cells, monocytes and various other immune cells at sites of inflammation or damaged tissues. In parallel, CCL4 can also act as a major HIV suppressor produced by CD8+ T cells, inducing dose-dependent inhibition of different strains of HIV-1, HIV-2 and monkey immunodeficiency virus (SIV). Among them, the N-terminal processed form CCL4 (3-69), produced by proteolytic cleavage of peripheral blood lymphocytes after secretion, retains the ability to induce down-regulation of chemokine receptor CCR5 surface expression and inhibit CCR5-mediated HIV-1 entry into T cells^[2].</p> |
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REFERENCES

[1]. S G Inving, et al. Two inflammatory mediator cytokine genes are closely linked and variably amplified on chromosome 17q. Nucleic Acids Res. 1990 Jun 11;18(11):3261-

70.

[2]. Patricia Menten, et al. Macrophage inflammatory protein-1. Cytokine Growth Factor Rev. 2002 Dec;13(6):455-81.

Caution: Product has not been fully validated for medical applications. For research use only.

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