

Active Recombinant Mouse Ccl3 Protein (69 aa)

Cat. No. Ccl3-171C Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse MIP-1 alpha/CCL3 (rmMIP-1 α) produced in HEK 293 cells is a single polypeptide chain containing 69 amino acids. A fully biologically active molecule, rmMIP-1 α has a molecular mass of 7.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.

Species Mouse

Source HEK293

Protein Length 69

Description MIP-1 alpha/CCL3, also known as LD78 alpha, is an inflammatory chemokine. MIP-1 α belongs to the CCL chemokine family, and shares 68% homology with MIP-1 β . The mature form of MIP-1 α contains 69 amino acids, exists as dimers in solution, and tends to undergo reversible aggregation. The receptors of MIP-1 α in vivo are mainly the G-protein coupled receptors CCR1 and CCR5. Upon stimulation by endogenous and exogenous agents such as Interleukin-1 β , Interferon- γ , and lipoteichoic acid from gram-positive bacteria, monocytes are able to secrete significant amounts of MIP-1 α . MIP-1 α augments the adhesions of T lymphocytes, monocytes, and neutrophils to vascular cell adhesion molecule 1. Additionally, in wounds, MIP-1 α chemoattracts macrophages in order to accelerate the tissue repair process.

Form Sterile Filtered White lyophilized (freeze-dried) powder.

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Bio-activity	The EC50 value of mouse MIP-1 α /CCL3 on Ca ²⁺ mobilization assay in CHO-K1/G α 15/mCCR1 cells (human G α 15 and mouse CCR1 stably expressed in CHO-K1 cells) is less than 100 ng/mL.
Molecular Mass	7.8 kDa, observed by reducing SDS-PAGE.
AA Sequence	APYGADTPTACCFSYSRKIPRQFIVDYFETSSLCSQPGVIFLTKRNRQICADSKETWV QEYITDLELNA
Endotoxin	< 0.2 EU/ μ g, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Mouse MIP-1 α /CCL3 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution Mouse MIP-1 α /CCL3 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μ g/mL.

GENE INFORMATION

Gene Name	Ccl3 chemokine (C-C motif) ligand 3 [<i>Mus musculus</i>]
Official Symbol	Ccl3
Synonyms	CCL3; chemokine (C-C motif) ligand 3; C-C motif chemokine 3; TY-5; L2G25B; MIP1 (a); SIS-alpha; MIP-1 alpha; MIP-1-alpha; small inducible cytokine A3; small-inducible cytokine A3; heparin-binding chemotaxis protein; macrophage inflammatory protein-1alpha; macrophage inflammatory protein 1-alpha; Mip1a; Scya3; G0S19-1;

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AI323804; MIP1-(a); LD78alpha; MIP-1alpha; MIP1-alpha;

Gene ID [20302](#)

mRNA Refseq [NM_011337](#)

Protein Refseq [NP_035467](#)

UniProt ID [P10855](#)

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