

Bioworld Technology,Inc.

Recombinant MIP-1α/CCL3, Mouse

Catalog Number: BK0322-25µg

Source: HEK 293

Quantity: 25µg

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-1ain 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-1a. MIP-1a augments the adhesions of T lymphocytes, monocytes, and neutrophils to vascular cell adhesion molecule 1. Additionally, in wounds, MIP-1achemoattracts macrophages in accelerate order to the tissue repair process.Recombinant Mouse MIP-1 alpha/CCL3 (rmMIP-1 α) produced in HEK 293cells is a single polypeptide chain containing 69 amino acids. A fully biologically active molecule, rmMIP-1ahas a molecular mass of 7.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

7.8 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

The EC50 value of mouse MIP-1 α /CCL3 on Ca²⁺ mobilization assay in CHO-K1/G α 15/mCCR1 cells

(human Ga15 and mouse CCR1 stably expressed in CHO-K1 cells) is less than 100 ng/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

APYGADTPTACCFSYSRKIPRQFIVDYF-ETSSLCSQPGVIFLTKRNRQICADSKETWVQEY-ITDLELNA

Endotoxin:

 $< 0.2 \text{ EU/}\mu g$, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Mouse MIP-1 α /CCL3 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution Mouse MIP-1 α /CCL3 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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