PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant MIP-1α/CCL3, Mouse

Catalog Number: BK0322-5μg Source: HEK 293 Quantity: 5μg

Description:

MIP-1 alpha/CCL3, also known as LD78 alpha, is an inflammatory chemokine. MIP-1α belongs to the CCL chemokine family, and shares 68% homology with MIP-1β. The mature form of MIP-1α contains 69 amino acids, exists as dimers in solution, and tends to undergo reversible aggregation. The receptors of MIP-1αin vivo are mainly the G-protein coupled receptors CCR1 and CCR5. Upon stimulation by endogenous and exogenous agents such as Interleukin-1β, Interferon-γ, and lipoteichoic acid from gram-positive bacteria, monocytes are able to secrete significant amounts of MIP-1α. MIP-1α aμgments the adhesions of T lymphocytes, monocytes, and neutrophils to vascular cell adhesion molecule 1. Additionally, in wounds, MIP-1αchemoattracts macrophages in order to accelerate the tissue repair process.Recombinant Mouse MIP-1 alpha/CCL3 (rmMIP-1α) produced in HEK 293cells is a single polypeptide chain containing 69 amino acids. A fully biologically active molecule, rmMIP-1αhas 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-1α/CCL3 on Caˆ2+ mobilization assay in CHO-K1/Gα15/mCCR1 cells (human Gα15 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 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 μg/ml.

Storage:

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

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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