

Product Datasheet

RecombinantMIP-1α/CCL3, Mouse (orb1494631)

Catalog Number orb1494631

Category Proteins

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- 1α in

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 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. 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-1 α has a molecular mass of 7.8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic

techniques at GenScript.

Form/Appearance Lyophilized after extensive dialysis against PBS.

Buffer/Preservatives Lyophilized after extensive dialysis against PBS.

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

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

Protein Sequence APYGADTPTACCFSYSRKIPRQFIVDYFETSSLCSQPGVIFLTKRNRQICADSKETWVQEYIT

DLELNA

MW 7.8 kDa, observed by reducing SDS-PAGE.

Application notes Reconstituted in ddH2O or PBS at 100 μg/ml.

Endotoxins 0.2 EU/μg, determined by LAL method.





Source HEK 293

Biological Activity The EC50 value of mouse MIP- 1α /CCL3 on Ca²+ mobilization assay in CHO-

 $K1/G\alpha15/mCCR1$ cells (human $G\alpha15$ and mouse CCR1 stably expressed in CHO-

K1 cells) is less than 100 ng/ml.

Storage Lyophilized recombinant Mouse MIP- 1α /CCL3 remains stable up to 6 months at -

80°C from date of receipt. Upon reconstitution Mouse MIP- 1α /CCL3 should be

stable up to 1 week at 4°C or up to 2 months at -20°C.

Note For research use only