10320 Camino Santa Fe, Suite G
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CCL3, LD78α
Catalog # PVGS1375

Specification

CCL3, LD78α - Product Information

Primary Accession P10147
Species
Human

Sequence
ASLAADTPTA CCFSYTSRQI PQNFIADYFE TSSQCSKPGV IFLTKRSRQV CADPSEEWVQ KYVSDLELSA

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

Endotoxin Level
< 0.2 EU/ µg, determined by LAL method.

Formulation **Lyophilized after extensive dialysis against PBS.**

Reconstitution
Reconstituted in ddH₂O or PBS at 100 µg/ml.

CCL3, LD78α - Additional Information

Gene ID 6348

Other Names
C-C motif chemokine 3, G0/G1 switch regulatory protein 19-1, Macrophage inflammatory protein 1-alpha, MIP-1-alpha, PAT 464.1, SIS-beta, Small-inducible cytokine A3, Tonsillar lymphocyte LD78 alpha protein, MIP-1-alpha(4-69), LD78-alpha(4-69), CCL3, G0S19-1, MIP1A, SCYA3

Target Background
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 augments the adhesions of T lymphocytes, monocytes, and neutrophils to vascular cell adhesion molecule 1. In addition, in wounds, MIP-1α chemo-attracts macrophages in order to accelerate the tissue repair process.
Recombinant human MIP-1 alpha/CCL3 (rhMIP-1 alpha) produced in E. coli is a single non-glycosylated polypeptide chain containing 70 amino acids. A fully biologically active molecule, rhMIP-1 alpha has a molecular mass of 7.8 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at .

CCL3, LD78α - Protein Information

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Name CCL3

Synonyms G0S19-1, MIP1A, SCYA3

Function
Monokine with inflammatory and chemokinetic properties. Binds to CCR1, CCR4 and CCR5. One of the major HIV-suppressive factors produced by CD8+ T-cells. Recombinant MIP-1-alpha induces a dose- dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV).

Cellular Location
Secreted.

CCL3, LD78α - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CCL3, LD78α - Images