Product Datasheet

RecombinantMIP-1α/CCL3,Mouse (orb1494631)

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 augments 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.
Endotoxins	< 0.2 EU/μg, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
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
Application notes	Reconstituted in ddH2O or PBS at 100 μg/ml.
Protein Sequence	APYGADTPTACCFSYSRKIPRQFIVDYFETSSLCSQPGVIFLTKRNRQICADSKETWVQEYIT DLELNA
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Source	HEK 293

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MW	7.8 kDa, observed by reducing SDS-PAGE.
Expiration Date	6 months from date of receipt.

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