Recombinant Mouse MIP-3 (CCL19)

Cat No:HR2R2206

For research use only

Overview

Quantity	1.0 ?g
Gene Symbol	CCL19
Gene ID	24047
Accession	O70460
Alternative Name	C-C motif chemokine 19, Epstein-Barr virus-induced molecule 1 ligand chemokine, EBI1 ligand chemokine, ELC, Small-inducible cytokine A19, MIP3
Species	Mouse
Source	E. coli
Description	The chemokine MIP-3 beta is a chemoattractant for T and B lymphocytes, dendritic cells, macrophage progenitor cells, and natural killer cells. It might, therefore, play an important role in the trafficking of T cells in the thymus and migration of T and B cells to secondary lymphoid organs. Furthermore, MIP-3 beta has been recently shown to mediate rapid adhesion of naive CD4(+) T lymphocytes to activated endothelial cells supporting the role of this chemokine in regulation of lymphocyte homing. MIP-3 beta acts through CC chemokine receptor 7 (CCR7). The chemokines Lkn-1 and MIP-3 alpha are also lymphocyte attractants, although compared with MIP- 3 beta, their promigratory effect on lymphocytes is less intensive and their chemotactic activity is more promiscuous. Lkn-1 attracts monocytes, lymphocytes, and eosinophils via the chemokine receptors CCR1 and CCR3. MIP-3 alpha exhibits promigratory effects on lymphocytes, neutrophils, and immature dendritic cells via the CCR6 receptor.
Functions	Determined by its ability to chemoattract human dendritic cells using a concentration range of 10-50 ng/mL.
Formulation	Recombinant CCL19 was lyophilized from a 0.2 ?m filtered 20 mM PB,100 mM NaCl solution pH 7.5.
Solubility	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Appearance	Lyophilized Powder
Molecular Weight	10
Purity	>95% as determined by SDS-PAGE
Concentration	<1.0 EU/?g of recombinant protein as determined by the LAL method.
Shipping Condition	Ambient Temperature
Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70?C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8?C for one month, or at -20?C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.