Recombinant Mouse CCL19/MIP-3β
Catalog Number: 440-M3

DESCRIPTION

Source: E. coli-derived
Gly26-Val107-Leu-Glu, with a substitution of Ser108LeuGlu
Accession #: Q548P0

N-terminal Sequence Analysis: Gly26
Predicted Molecular Mass: 9.4 kDa

SPECIFICATIONS

Activity: Measured by its ability to chemoattract 5-10 day cultured human peripheral blood lymphocytes (PBL).
The ED₅₀ for this effect is 0.03-0.1 µg/mL.

Endotoxin Level: <0.01 EU per 1 µg of the protein by the LAL method.

Purity: >97%, by SDS-PAGE under reducing conditions and visualized by silver stain.

Formulation: Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA with BSA as a carrier protein. See Certificate of Analysis for details.

PREPARATION AND STORAGE

Reconstitution: Reconstitute at 10 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.

Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CCL19/MIP-3β, also known as ELC (EBI1-Ligand Chemokine), is a reported β chemokine that binds specifically to the chemokine receptor CCR-7/EBI-1/BLR-2. Mouse (human) MIP-3β cDNA encodes a 108 (98) amino acid residue precursor protein with a predicted 25 (21) aa residue signal peptide that is cleaved to form the 83 (77) aa residue mature secreted protein. MIP-3β is distantly related to other β chemokines (20-30% aa sequence identity). Mouse MIP-3β shares 83% aa sequence homology with human MIP-3β. MIP-3β has been shown to be constitutively expressed in various lymphoid tissues (including thymus, lymph nodes, appendix, and spleen) in dendritic cells within the T-cell zone. The expression of MIP-3β is down-regulated by the anti-inflammatory cytokine IL-10. Recombinant MIP-3β has been shown to be chemotactic for T cells and B cells. The MIP-3β receptor (CCR-7/EBI-1/BLR-2) is expressed in various lymphoid tissues and activated B and T lymphocytes. CCR-7 is also strongly up-regulated in B cells infected with Epstein-Barr virus and T cells infected with herpesvirus 6 or 7.

References: