

Catalog Number: 361-MI

DESCRIPTION	
Source	<i>E. coli</i> -derived human CCL19/MIP-3 beta protein Gly22-Ser98
	Accession # Q99731.1
N-terminal Sequence Analysis	Gly22
Predicted Molecular Mass	8.8 kDa

SPECIFICATIONS	
Activity	Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with human CCR7. The ED ₅₀ for this effect is 3-15 ng/mL.
Endotoxin Level	<0.10 EU per 1 μ g of the protein by the LAL method.
Purity	>97%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
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 25 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

MIP-3 β , also known as ELC (EBI1-Ligand Chemokine), is one of many novel β chemokines identified through bioinformatics. MIP-3 β cDNA encodes a 98 amino acid (aa) residue precursor protein with a predicted 21 aa residue signal peptide that is cleaved to form the 77 aa residue mature secreted protein. MIP-3 β is distantly related to other β chemokines (20-30% aa sequence identity) and the gene for MIP-3 β has been mapped to chromosome 9p13 rather than chromosome 17 where the genes for many human β chemokines are clustered. MIP-3 β has been shown to be constitutively expressed in various lymphoid tissues (including thymus, lymph nodes, appendix and spleen). The expression of MIP-3 β is down-regulated by the anti-inflammatory cytokine IL-10. Recombinant MIP-3 β has been shown to be a unique functional ligand for CCR-7 (previously referred to as the Epstein-Barr virus-induced gene 1 (EBI1) orphan receptor), a chemokine receptor that is expressed in various lymphoid tissues and activated B and T lymphocytes. EBI1 is strongly up-regulated in B cells infected with Epstein-Barr virus and T cells infected with herpesvirus 6 or 7.

References:

1. Yoshida, R. et al. (1997) J. Biol. Chem. 272:13803.

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