Recombinant Mouse MIP-1 beta

20150227BB

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Cat.-no.:	**M10-077**
Size:	10 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	*20303*
Synonyms:	Ccl4; Act-2; Mip1b; Scya4; MIP-1B; AT744.1

Both MIP-1α and MIP-1β are structurally and functionally related CC chemokines. They participate in the host response to invading bacterial, viral, parasite and fungal pathogens by regulating the trafficking and activation state of selected subgroups of inflammatory cells e.g. macrophages, lymphocytes and NK cells. While both MIP-1α and MIP-1β exert similar effects on monocytes their effect on lymphocytes differ; with MIP-1α selectively attracting CD8+ lymphocytes and MIP-1β selectively attracting CD4+ lymphocytes. Additionally, MIP-1α and MIP-1β have also been shown to be potent chemoattractants for B cells, eosinophils and dendritic cells. Both human and murine MIP-1α and MIP-1β are active on human and murine hematopoietic cells. Recombinant murine MIP-1β is a 7.8 kDa protein containing 69 amino acid residues, including the four highly conserved cysteine residues present in CC chemokines.

Sequence

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APMGSDPPTS CCFSYTSRQL HRSFVMDYYE TSSLCSKPAV
VFLTKRGRQI CANPSEPWVT EYMSDLELN
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Database References

Protein RefSeq:	NP_038680
Uniprot ID:	P14097
mRNA RefSeq:	NM_013652

Product Specifications

Expressed in	E. coli
Purity	> 95% by SDS-PAGE & HPLC analysis
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	69
MW:	7.8 kDa

Biological Activity: Determined by its ability to chemoattract human monocytes using a concentration range of 20.0-100.0 ng/ml.

AVOID REPEATED FREEZE AND THAW CYCLES!

ReliaTech GmbH
Phone: +49 (0)5331 8586 987 • Fax: +49 (0)5331 8586 989 • E-mail: orders@reliatech.de • web: www.reliatech.de
Location: Lindener Str. 15, 38300 Wolfenbüttel, Germany