## ChemUhot<br/>A brand under WatsonRecombinant Murine Macrophage Inflammatory<br/>Protein-1 beta/CCL4<br/>(rMuMIP-1β/CCL4)<br/>ChemWhat Technical Data Sheet (TDS)

Catalog Number:	224-04
Source:	Escherichia coli.
Molecular Weight:	Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 69 amino acids.
Quantity:	2µg/10µg/1000µg
107	
AA Sequence:	APMGSDPPTS CCFSYTSRQL HRSFVMDYYE TSSLCSKPAV VFLTKRGRQI CANPSEPWVT
	EYMSDLELN
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The biological activity determined by a
	chemotaxis bioassay using human monocytes is in a concentration range of 20-100 ng/ml.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in 2 × PBS, pH 7.4.
Endotoxin:	Less than 1 EU/µg of rMuMIP-1 $\beta$ /CCL4 as determined by LAL method.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the
	bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a
	concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and
	stored at $\leq$ -20 $\mathbb{C}$ . Further dilutions should be made in appropriate buffered solutions.
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.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further
	evaluation purposes. NOT FOR HUMAN USE.

## Murine Macrophage Inflammatory Protein-1 beta/CCL4

Chemokine (C-C motif) ligand 4, also known as Macrophage inflammatory protein-1 $\beta$  (MIP-1 $\beta$ ) is a CC chemokine with specificity for CCR5 receptors and it is a major HIV-suppressive factor produced by CD8+ T cells. In addition, it is a monokine with inflammatory and chemokinetic properties. Recombinant CCL4 induces a dose-dependent inhibition of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). Furthermore, recombinant murine CCL4 contains 69 amino acids and it shares 77 % and 86 % a.a. sequence identity with human and rat CCL4. Both human and murine MIP-1 $\alpha$  and MIP-1 $\beta$  are active on human and murine hematopoietic cells.

Rev. 08/20/2018 V.3

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