

ChemWhot Recombinant Murine Macrophage Inflammatory Protein-1 gamma/CCL9/CCL10 (rMuMIP-1y/CCL9/CCL10)

ChemWhat Technical Data Sheet (TDS)

Catalog Number:

224-09

Source:

Escherichia coli.

Molecular Weight:

Approximately 11.6 kDa, a single non-glycosylated polypeptide chain containing 101 amino acids.

Quantity:

 $5 \mu g / 20 \mu g / 1000 \mu g$

AA Sequence:

QITHATETKE VQSSLKAQQG LEIEMFHMGF QDSSDCCLSY NSRIQCSRFI GYFPTSGGCT

RPGIIFISKR GFQVCANPSD RRVQRCIERL EQNSQPRTYK Q

Purity:

> 95 % by SDS-PAGE and HPLC analyses.

Biological Activity:

Fully biologically active when compared to standard. The biological activity determined by a

chemotaxis bioassay using human neutrophils is in a concentration range of 0.1-10 ng/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Endotoxin:

Less than 1 EU/μg of rMuMIP-1γ/CCL9/CCL10 as determined by LAL method.

Reconstitution:

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 °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 gamma/CCL9/CCL10

Murine CCL9/10 is belonging to the CC chemokine family. It is encoded by the gene CCL9. MRP-2 (CCL9/10) was isolated from a murine macrophage cell line, RAW 264.7. MRP-2 shows a 51 % sequence identity at the protein level to MRP-1 (C10) and 46% identity to MIP-1-alpha (CCL3). The functional receptor for CCL9/10 has been identified as CCR1. In contrast, other CCR1 ligands, CCL3/MIP-1alpha and CCL5/RANTES are considered to be primary CCR1 ligands in inflammatory responses. CCL9 can activate osteoclasts suggesting an important role for it in bone resorption. Murine CCL9/10 is 75 % amino acid identical to rat CCL9/10.

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