

Recombinant Murine Macrophage Inflammatory Protein-1 gamma/CCL9/CCL10

Information

Gene ID	20308
Accession #	P51670
Alternate Names	MIP-1-gamma, MRP-2, Small-inducible Cytokine A9
Source	Escherichia coli.
M.Wt	Approximately 11.6 kDa, a single non-glycosylated polypeptide chain containing 101 amino acids.
AA Sequence	QITHATETKE VQSSLKAQQG LEIEMFHMFG QDSSDCCLSY NSRIQCSRFI GYFPTSGGCT RPIIFISKR GFQVCANPSD RRVQRCIERL EQNSQPRTYK Q
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
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 ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
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.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	5µg	100µg	500µg
Recombinant Murine Macrophage Inflammatory Protein-1 gamma/CCL9/CCL10	5µg	100µg	500µg

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- 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

Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rMuMIP-1γ/CCL9/CCL10 as determined by LAL method.

Description

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.

Reference

1. Youn BS, Jang IK, Broxmeyer HE, et al. 1995. J Immunol. 155:2661-7
2. Berahovich RD, Miao Z, Wang Y, et al. 2005. J Immunol. 174:7341-51
3. Lean JM, Murphy C, Fuller K, et al. 2002. J Cell Biochem. 87:386-93.

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