Recombinant Canine Monocyte Chemotactic Protein-2/CCL8

#R00442

Size: 5 μg/100 μg/500 μg

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.

Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

MCP-2 and MCP-3 are two monocyte chemotactic proteins produced by human MG-63 osteosarcoma cells. Both MCP-2 and MCP-3 are members of the C-C family of chemokines and share 62% and 71% amino acid sequence identity, respectively, with MCP-1. MCP-3 also shares 58% amino acid identity with MCP-2. Similarly to other C-C chemokines, all three MCP proteins are monocyte chemoattractants. In addition, the three MCPs can chemoattract activated NK cells as well as CD4+ and CD8+ T lymphocytes. All three cytokines have also been shown to attract eosinophils and induce histamine secretion from basophils.

AA Sequence

QPDSVSIPITCCFSMVKRKIPMQKLESYMRITNSQCP QEAVIFKTKASREICADPKQKWVQDYMNHLDQKSQA QKP

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.

Product Specification

Accession	Q68AY9
GeneID	448792
Species	Canine
Source	Escherichia coli.
Molecular Weight	Approximately 8.8 kDa, a single non-glycosylated polypeptide chain containing 76 amino acids.
Purity	> 98 % 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 peripheral blood monocytes is in a concentration range of 10-100 ng/ml.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH7.4.
Endotoxin	Less than 0.1 EU/μg of rCaMCP-2/CCL8 as determined by LAL method.