

Recombinant Murine Monocyte Chemotactic Protein-2/CCL8

#R00429

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

Murine CCL8, also known as monocyte chemotactic protein 2 (MCP-2), is belonging to the CC chemokine family and is encoded by the gene CCL8 in mouse. MCP-2 has two homogeneous MCP-1 (CCL2) and MCP-3 (CCL7). These three MCPs were found by IL-1-beta triggered human MG-63 osteosarcoma cells. CCL8 shares 62 % amino acid sequence identity with MCP-1, and shares 58 % amino acid sequence identity with MCP-2. CCL8 has chemotactic fuction for monocytes, eosinophils and neutrophils. In addition, it can also chemoattract activated NK cells.

AA Sequence

GPDKAPVTCCFHVLKLIKPLRVLKSYSERINNIQCPMEA
VVFQTKQGMSLCVDPTQKWVSEYMEILDQKSQILQP

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

Synonyms	Small-inducible Cytokine A8
Accession	Q9Z121
GeneID	20307
Species	Murine
Source	Escherichia coli.
Molecular Weight	Approximately 8.5 kDa, a single, non-glycosylated polypeptide chain containing 74 amino acids.
Purity	> 97 % 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	Sterile Filtered White Lyophilized

Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Endotoxin	Less than 1 EU/μg of rMuMCP-2/CCL8 as determined by LAL method.