

Recombinant Murine Monocyte Chemotactic Protein-5/CCL12

#R00432

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 CCL12 is belonging to the CC chemokine family. It shows 66 % amino acid sequence identity to human MCP-1. CCL12 has been shown to be a potent chemoattractant for monocytes and lymphocytes but not neutrophils. At high concentrations, it will also chemoattract eosinophils. CCL12 can induce a calcium flux in human HEK-293 cells transfected with murine CCR2, but can not induce a calcium flux in HEK-293 cells transfected with CCR1, CCR3, or CCR5. That shows the functional receptor of CCL12 is CCR2.

AA Sequence

GPDAVSTPVTCCYNVVKQKIHVRKLKSYRRITSSQCP
REAVIFRTILDKEICADPKEKWVKNSINHLDKTSQTFIL
EPSCLG

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	MCP-1-related Chemokine, Small-inducible Cytokine A12
Accession	Q62401
GeneID	20293
Species	Murine
Source	Escherichia coli.
Molecular Weight	Approximately 9.3 kDa, a single non-glycosylated polypeptide chain containing 82 amino acids.
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 peripheral blood monocytes is in a concentration range of 10-50 ng/ml.

Physical	Sterile Filtered White lyophilized
Appearance	(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 rMuMCP-5/CCL12 as determined by LAL method.