Recombinant Human Macrophage-Derived Chemokine/CCL22

#R00394

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

CCL22 is a protein that in humans is encoded by the CCL22 gene, which locates on the Chr. 16. The protein is highly expressed in macrophage, monocyte-derived dendritic cell and thymus, additionally, also detected in the tissues of thymus, lymph node and appendix. CCL22 can bind to CCR4, and is a chemoattractant for monocytes, monocyte-derived dendritic cells, and natural killer cells, but not for neutrophils, eosinophils, and resting T-lymphocytes. After secreted from monocyte-derived dendritic cells, the protein can be proteolytic cleaved into three forms: MDC (3-69), MDC (5-69), MDC (7-69).

AA Sequence

GPYGANMEDSVCCRDYVRYRLPLRVVKHFYWTSDS
CPRPGVVLLTFRDKEICADPRVPWVKMILNKLSQ

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	STCP-1, MDC (1-69), Macrophage-derived Chemokine
Accession	O00626
GeneID	6367
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 8.1 kDa, a single, non-glycosylated polypeptide chain containing 69 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 T-lymphocytes 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 20 mM PB, pH7.4, 500 mM NaCl.
Endotoxin	Less than 1 EU/μg of rHuMDC/CCL22 as determined by LAL method.