

Recombinant Human Macrophage Inflammatory Protein-4/CCL18

#R00391

Size: 10 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

Human CCL18 is encoded by the CCL18 gene located on the chromosome 17. As also named MIP-4, it shares 61 % sequence identity to human MIP-1α. CCL18 is mainly expressed by lung and some lymphoid tissues like lymph nodes express CCL18 at low level. It is chemotactic for both activated (CD3+) T cells and nonactivated (CD14-) lymphocytes, but not for monocytes or granulocytes. Involved in B-cell migration into B-cell follicles in lymph nodes. CCL18 plays a role in both humoral and cell-mediated immunity responses.

AA Sequence

AQVGTNKELCCLVYTSWQIPQKFIVDYSETSPQCCKP
GVILLTKRGRQICADPNKKVWVQKYISDLKLN

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	AMAC-1, PARC, DC-CK1
Accession	P55774
GeneID	6362
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 7.9 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 of 1.0-10 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, pH 7.4, 100 mM NaCl.
Endotoxin	Less than 1 EU/μg of rHuMIP-4/CCL18 as determined by LAL method.