

Datasheet for 009-001-W00-0002**rHuman MIP-4 (CCL18) Protein****Overview**

Description:	Human Macrophage Inflammatory Protein-4 (CCL18) Recombinant Protein - 009-001-W00-0002
Item No.:	009-001-W00-0002
Size:	2 µg
Applications:	SDS-PAGE, Cellular Assay
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Macrophage Inflammatory Protein-4 (MIP-4), also called CCL18, is a chemokine expressed in the lymph nodes, lungs, placenta and bone marrow. Although the MIP-4's receptor remains undetermined, MIP-4 is known to act as a chemoattractant for activated and non-activated T cells. Recombinant human MIP-4 is a non-glycosylated protein, containing 69 amino acids, with a molecular weight of 7.8 kDa.
Synonyms:	PARC, Alternative macrophage activation-associatedCC chemokine 1 (AMAC-1), Dendritic cell chemokine 1 (DC-CK1), Macrophage inflammatory protein 4 (MIP-4), Pulmonary andactivation-regulated chemokine, Small-inducible cytokine A18
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	CCL18
Purity/Specificity:	Macrophage Inflammatory protein-4 (CCL18) purity was determined to be greater than 98% as determined by HPLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-PAGE.
Relevant Links:	• UniProtKB - P55774

Application Details

Tested Applications:	SDS-PAGE
Suggested Applications:	Cellular Assay (Based on references)
Application Note:	Macrophage Inflammatory Protein-4 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Macrophage Inflammatory Protein-4 in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein. Biologic Activity: The activity is determined by the ability to chemoattract human primary T cells or PBMCs and is typically 1.0-8.0 ng/mL.

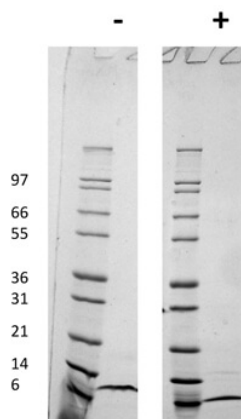
Formulation

Physical State:	Lyophilized
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	2 μ l (2-20 μ l)
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

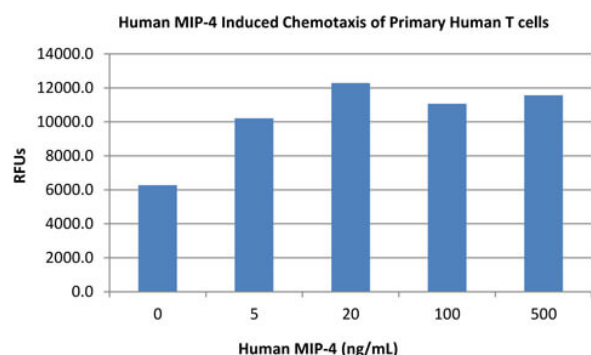
Shipping Condition:	Ambient
Storage Condition:	Store vial at -20° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



SDS-PAGE

SDS-PAGE of Human Macrophage Inflammatory Protein-4 (CCL18) Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Human MIP-4 in non-reducing conditions (-). Lane 3: 1 µg Human MIP-4 in reducing conditions (+). Human MIP-4 has a predicted MW of 7.8 kDa.



SDS-PAGE

Bioactivity of Human Macrophage Inflammatory Protein-4 (CCL18) Recombinant Protein. Human T cells were allowed to migrate to Human MIP-4 at (0, 5, 20, 100 and 500 ng/mL). After 4 hours, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above. Significant increases in migration over basal levels were seen in response to Human MIP-4 detectable starting at 5 ng/mL.

Disclaimer

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