Datasheet for ABIN6699598

CCL13 Protein

2 Images

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Overview

Quantity:	100 µg
Target:	CCL13
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Monocyte Chemotactic Protein-4 (CCL13) Recombinant Protein
Purification:	Monocyte Chemotactic protein-4 (CCL13) purity was determined to be greater than 95% as determined by HpLC, analysis by UV-Spectroscopy at 280nm, and by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The biological activity is determined by the ability of MCP-4 to chemoattract human monocytes and is typically between 7-75 ng/mL.

Target Details

Target:	CCL13
Alternative Name:	CCL13 (CCL13 Products)
Background:	Synonyms: CK-beta-10, Monocyte chemoattractant protein 4, Monocyte chemotactic protein 4

Target Details

	(MCP-4), NCC-1, Small-inducible cytokine A13 Background: Monocyte Chemotactic Protein 4 (MCP-4), also called CCL13, is induced by inflammatory proteins such as IL-1 and TNFα. MCP-4 is a ligand for three different G protein coupled receptors, CCR2, CCR3 and CCR5. MCP-4 activates signaling in monocytes, T lymphocytes, eosinophils and basophils and this signaling is associated with the allergic response. Recombinant human MCP-4 is a non-glycosylated protein, containing 74 amino acids, with a molecular weight of 8.5 kDa.
UniProt:	Q99616
Pathways:	Regulation of Systemic Arterial Blood Pressure by Hormones, The Global Phosphorylation Landscape of SARS-CoV-2 Infection

Application Details

Application Notes:	Other: User Optimized Application_Note: Monocyte Chemotactic Protein-4 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Monocyte Chemotactic Protein-4 in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

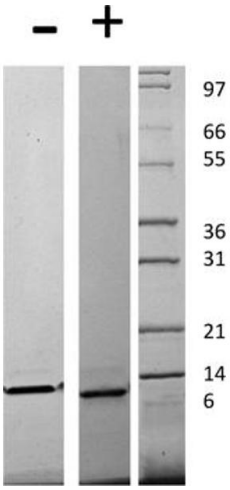
Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 100 µL
Buffer:	Buffer: 0.1 % Trifluoroacetic acid Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° 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

Handling

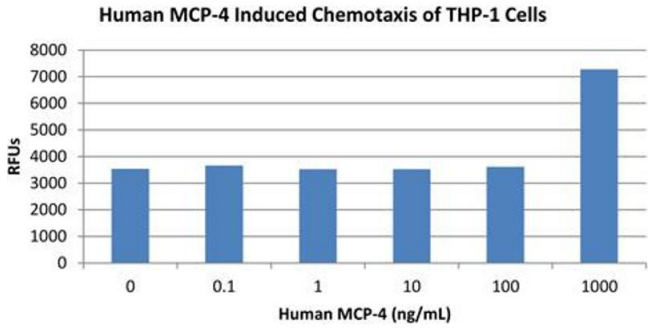
	opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Human Monocyte Chemotactic Protein-4 (CCL13) Recombinant Protein SDS-PAGE of Human Monocyte Chemotactic Protein-4 (CCL13) Recombinant Protein. Lane 1: 1 µg Human MCP-4 in non-reducing conditions . Lane 2: 1 µg Human MCP-4 in reducing conditions (+). Lane 3: Molecular weight marker. Human MCP-4 has a predicted MW of 8.6 kDa.



SDS-PAGE

Image 2. SDS-PAGE of Human Monocyte Chemotactic Protein-4 (CCL13) Recombinant Protein Bioactivity of Human Monocyte Chemotactic Protein-4 (CCL13) Recombinant Protein. Human THP-1 cells were allowed to migrate to Human MCP-4 at (0, 0.1, 1, 10, 100 and 1000 ng/mL). After 45 minutes, 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 MCP-4 starting at 1000 ng/mL. This value is comparable to expected ranges of a chemotactic response of primary human monocytes.