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Datasheet for ABIN6952161 CCL2 Protein (AA 24-99) (Biotin)

2 Images



Overview

Quantity:	100 µg
Target:	CCL2
Protein Characteristics:	AA 24-99
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CCL2 protein is labelled with Biotin.
Application:	Cell Migration Assay (CMA), Flow Cytometry (FACS)
Product Details	
Sequence:	QPDAINAPVT CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE ICADPKQKWV
	QDSIDHLDKQ TQTPKT
Characteristics:	Biotininylated Recombinant Human CCL2 (MCP-1)
Purity:	> 97 % by SDS PAGE
Endotoxin Level:	<0.01 EU per 1 μ g of the protein by the LAL method
Biological Activity Comment:	EC50 = 0.25-1.2 nM determined by Migration Assay of recombinant CCR2 containing cells
Target Details	
Target:	CCL2

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Target Details	
Alternative Name:	CCL2 (MCP-1) (CCL2 Products)
Background:	Monocyte chemoattractant protein-1 (MCP-1) (CCL2) is produced by many cell types at sites of
	inflammation. It regulates chemotaxis and transendothielial migration of monocytes, as well as
	memory T cells and natural killer cells by interacting with their membrane surface receptor
	CCR2. MCP-1 has also been implicated in a number of disease states, such as rheumatoid
	arthritis, psoriasis, atherosclerosis, autoimmune diseases, tumor progression, and HIV
	infection. This cytokine displays chemotactic activity for monocytes and basophils but not for
	neutrophils or eosinophils. It binds to chemokine receptors CCR2 and CCR4.
Molecular Weight:	11.085 kDa
UniProt:	P13500
Pathways:	Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector
	Process, ER-Nucleus Signaling, Unfolded Protein Response, The Global Phosphorylation
	Landscape of SARS-CoV-2 Infection
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Spin tube prior to resuspending. Recommended at 100 μ g/mL in sterile water
Storage:	-20 °C,-80 °C
Storage Comment:	12 months from date of receipt, -20 to -70 °C as supplied.

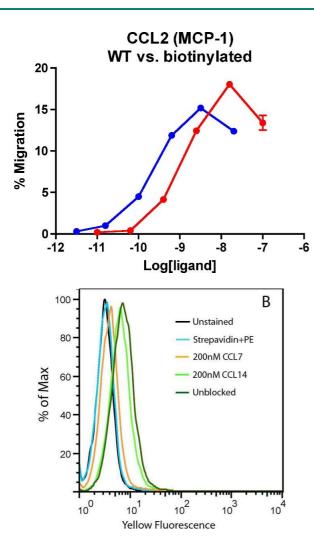
1 month at -20 to -70 °C under sterile conditions after reconstitution.

12 months

Suggest to use immediately after reconstitution

Expiry Date:

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Cellular Assay

Image 1. Cells expressing recombinant CCR2 were assayed for migration through a transwell filter at various concentrations of MCP-1. Responses are expressed as the % of total input cells (Blue: wild type; Red: biotinylated).

Flow Cytometry

Image 2. Uptake of 20nM CCL2-biotin by THP1 cells (dark green trace) is abolished by the addition of CCL7 (orange) but not CCL14 (light green), suggesting a CCR2-specific internalization. THP1 cells are not stained in the absence of CCL2-biotin (cyan).

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