

# Active Recombinant Full Length Human CCL5 Protein, C-Flag-tagged

Cat. No. CCL5-1068HFL Lot. No. (See product label)

## SPECIFICATION

### Product Overview

Recombinant Full Length Human CCL5 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.

### Species

Human

### Source

Mammalian Cells

### Description

This gene is one of several chemokine genes clustered on the q-arm of chromosome 17. Chemokines form a superfamily of secreted proteins involved in immunoregulatory and inflammatory processes. The superfamily is divided into four subfamilies based on the arrangement of the N-terminal cysteine residues of the mature peptide. This chemokine, a member of the CC subfamily, functions as a chemoattractant for blood monocytes, memory T helper cells and eosinophils. It causes the release of histamine from basophils and activates eosinophils. This cytokine is one of the major HIV-suppressive factors produced by CD8+ cells. It functions as one of the natural ligands for the chemokine receptor chemokine (C-C motif) receptor 5 (CCR5), and it suppresses in vitro replication of the R5 strains of HIV-1, which use CCR5 as a coreceptor. Alternative splicing results in multiple transcript variants that encode different isoforms.

### Form

25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.

### Bio-activity

Binding assay

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 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Molecular Mass</b>	7.8 kDa
<b>AA Sequence</b>	MKVSAAALAVILIATALCAPASASPYSSDTPCCFAYIARPLPRAHIKEYFYTSGKCSN PAVVFVTRKNRQVCANPEKKWVREYINSLEMSTRTRPLEQKLISEEDLAANDILDYK DDDDKV
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining.
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade.
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method.
<b>Preparation</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Protein Families</b>	Druggable Genome, Secreted Protein, Transmembrane
<b>Protein Pathways</b>	Chemokine signaling pathway, Cytokine-cytokine receptor interaction, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, NOD-like receptor signaling pathway, Prion diseases, Toll-like receptor signaling pathway
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CCL5 C-C motif chemokine ligand 5 [ Homo sapiens (human) ]
<b>Official Symbol</b>	CCL5

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<b>Synonyms</b>	SISd; eoCP; SCYA5; RANTES; TCP228; D17S136E; SIS-delta
<b>Gene ID</b>	<a href="#">6352</a>
<b>mRNA Refseq</b>	<a href="#">NM_002985.3</a>
<b>Protein Refseq</b>	<a href="#">NP_002976.2</a>
<b>MIM</b>	<a href="#">187011</a>
<b>UniProt ID</b>	<a href="#">P13501</a>

Coomassie blue staining of purified CCL5 protein.

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