

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

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Synonyms	SISd; eoCP; SCYA5; RANTES; TCP228; D17S136E; SIS-delta
Gene ID	6352
mRNA Refseq	NM_002985.3
Protein Refseq	NP_002976.2
MIM	187011
UniProt ID	P13501
Coomassie blue staining of purified CCL5 protein.	