

Active Recombinant Human CCL7, biotinylated

Cat. No. CCL7-132H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CCL7 is produced in E. coli, biotinylated
Species	Human
Source	E.coli
Description	CCL7, also known as Monocyte Chemotactic Protein-3 (MCP-3), is a secreted chemokine that attracts macrophages, monocytes, and eosinophils during inflammation and metastasis. It is a member of the C-C subfamily of chemokines which are characterized by having two adjacent cysteine residues. In vivo, this protein is a substrate of matrix metalloproteinase 2 (MMP2), an enzyme that degrades components of the extracellular matrix. The gene that encodes CCL7 is part of a cluster of C-C chemokine family members on chromosome 17q. CCL7 binds to CCR1, CCR2, and CCR3 receptors and appears to be an antagonist for the CCR5 receptor.
Form	Lyophilized.
Bio-activity	EC50 = 1.4-2.6nM determined by migration of recombinant CCR2-expressing cells.
Molecular Mass	11.2kDa by Mass Spec
AA Sequence	QPVGINTSTTCCYRFINKKIPKQRLESYRRTTSSHCPREAVIFKTKLDKEICADPTQK WVQDFMKHLDKKTQTPK LKLGSGLNDIFEAQKIEWHE

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Endotoxin	<0.01 EU per 1ug of protein by LAL method.
Purity	>97% by SDS-PAGE
Storage	12 months from date of receipt, -20°C to -70°C, as supplied. 1 month, 2°C to 8°C, under sterile conditions after reconstitution. 3 months, -20°C to -70°C, under sterile conditions after reconstitution.
Reconstitution	Recommended at 100ug/ml in sterile distilled water.
Conjugation	Biotin
GENE INFORMATION	
Gene Name	CCL7 chemokine (C-C motif) ligand 7 [Homo sapiens]
Official Symbol	CCL7
Synonyms	CCL7; chemokine (C-C motif) ligand 7; FIC; MARC; MCP3; NC28; MCP-3; SCYA6; SCYA7; MGC138463; MGC138465; monocyte chemotactic protein 3; monocyte chemoattractant protein 3; small inducible cytokine A7
Gene ID	6354
mRNA Refseq	NM_006273
Protein Refseq	NP_006264
MIM	158106
UniProt ID	P80098

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Chromosome Location	17q11.2-q12
Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction
Function	chemokine activity; heparin binding

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