

Recombinant Human CCL13 protein

Cat. No. CCL13-288H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CCL13 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	75
Description	Human CCL13 is belonging to the CC chemokine family and is encoded by the gene CCL13 in humans. CCL13 (MCP-4) shares 56-61 % sequence identity with MCP-1 (CCL2) and MCP-3 (CCL7) and is 60 % identical to Eotaxin (CCL11). CCL13 was a potent chemoattractant for monocytes and eosinophils and stimulated histamine release from basophils. CCL13 can induce a calcium flux in HEK-293 cells transfected with the receptor CCR2B and CCR3. That shows the function receptors of CCL3 are CCR2B and CCR3.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM PB, pH 7.4, 130 mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration of 10-100 ng/ml.
Molecular Mass	Approximately 8.6 kDa, a single non-glycosylated polypeptide chain containing 75 amino acids.

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AA Sequence	QPDALNVPSTCCFTFSSKKISLQRLKSYVITTSRCPQKAVIFRTKLGKEICADPKEKW VQNYMKHLGRKAHTLKT
Endotoxin	Less than 1 EU/μg of rHuMCP-4/CCL13 as determined by LAL method.
Purity	>96% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	CCL13
Official Symbol	CCL13
Synonyms	CCL13; chemokine (C-C motif) ligand 13; SCYA13, small inducible cytokine subfamily A (Cys Cys), member 13; C-C motif chemokine 13; CKb10; MCP 4; MGC17134; NCC 1; SCYL1; CK-beta-10; new CC chemokine 1; small-inducible cytokine A13; monocyte chemotactic protein 4; monocyte chemoattractant protein 4; small inducible cytokine subfamily A (Cys-Cys), member 13; NCC1; MCP-4; NCC-1; SCYA13;
Gene ID	6357

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mRNA Refseq	NM_005408
Protein Refseq	NP_005399
MIM	601391
UniProt ID	Q99616

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