

Recombinant Human Monocyte Chemotactic Protein-4/CCL13

Information

Gene ID	6357
Accession #	Q99616
Alternate Names	CK-beta-10, NCC-1, Small-inducible cytokine A13
Source	Escherichia coli.
M.Wt	Approximately 8.6 kDa, a single non-glycosylated polypeptide chain containing 75 amino acids.
AA Sequence	QPDALNVPST CCFTFSSKKI SLQRLKSYVI TTSRCPQKAV IFRTKLGKEI CADPKEKWWQ NYMKHLGRKA HTLKT
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 130 mM NaCl.
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 ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.
Biological 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.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	5µg	100µg	500µg
Recombinant Human Monocyte Chemotactic Protein-4/CCL13	5µg	100µg	500µg

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- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control

Purity	> 96 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuMCP-4/CCL13 as determined by LAL method.

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.

Reference

1. Uguccioni M, Loetscher P, Forssmann U, et al. 1996. J Exp Med. 183:2379-84
2. Berkhout TA, Sarau HM, Moores K, et al. 1997. J Biol Chem. 272:16404-13
3. Garcia-Zepeda EA, Combadiere C, Rothenberg ME, et al. 1996. J Immunol. 157:5613-26.

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