

Recombinant Mouse Chemokine (C-C Motif)Ligand 6

Cat. No. Ccl6-34M Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Mouse C-10 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 95 amino acids and having a molecular mass of 10710 Dalton. The CCL6 is purified by proprietary chromatographic techniques.

Species Mouse

Source E.coli

Description Chemokine (C-C motif) ligand 6 (CCL6) is a small cytokine belonging to the CC chemokine family that has only been identified in rodents. In mice, CCL6 is expressed in cells from neutrophil and macrophage lineages, and can be greatly induced under conditions suitable for myeloid cell differentiation. It is highly expressed in bone marrow cultures that have been stimulated with the cytokine GM-CSF. Some low levels of gene expression also occur in certain cell lines of myeloid origin (e.g. the immature myeloid cell lines DA3 and 32D cl3, and the macrophage cell line P388D) that can also be greatly induced in culture with GM-CSF. However, in activated T cell lines, expression of CCL6 is greatly reduced. CCL6 can also be induced in the mouse lung by the cytokine interleukin 13. Mouse CCL6 is located on chromosome 11. The cell surface receptor for CCL6 is believed to be the chemokine receptor CCR1.

Amino Acid Sequence The sequence of the first five N-terminal amino acids was determined and was found to be Gly-Leu-Ile-Gln-Glu.

Physical Appearance Sterile Filtered White lyophilized (freeze-dried) powder.

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Purity	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein was lyophilized with no additives.
Solubility	It is recommended to reconstitute the lyophilized I-TAC in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	ED50 range=1.0-10 ng/mL, determined by the dose dependent chemotaxis of human lymphocytes cultured in the presence of IL-2.
Storage	Lyophilized C10 protein although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL6 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	Ccl6 chemokine (C-C motif) ligand 6 [Mus musculus]
Synonyms	Ccl6; chemokine (C-C motif) ligand 6; c10; MRP-1; Scya6; CC chemokine C10; small inducible cytokine A6; OTTMUSP00000000945
Gene ID	20305
mRNA Refseq	NM_009139
Protein Refseq	NP_033165
UniProt ID	P27784

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Chromosome Location	11 C; 11 47.51 cM
Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction
Function	chemokine activity; cytokine activity

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