

Recombinant Mouse C-10 (rm CCL6)

Synonyms: Small inducible cytokine A6, C 10 protein, MRP-1, Scya6, chemokine (C-C motif) ligand 6

Introduction: Chemokine (C-C motif) ligand 6 is a small cytokine belonging to the CC chemokine family that has only been identified in rodents. In mice, C-10 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 C-10 is greatly reduced. It can also be induced in the mouse lung by the IL- 13. Mouse CCL6 is located on chromosome 11. The cell surface receptor for C-10 is believed to be the chemokine receptor CCR1.

Description: Recombinant mouse CCL6 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 95 amino acids and having a molecular mass of 10.7 kDa. The CCL6 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: lyophilized from a 0.2µm filtered concentrated solution in 1×PBS, pH 7.4. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rm C-10 in sterile H₂O not less than 100 µg/ml which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rm C-10 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rm C-10 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.

Purity: Greater than 95.0% as determined by RP-HPLC and by SDS-PAGE

Amino Acid Sequence: GLIQEIEKED RRYNPPIIHQ GFQDTSSDCC FSYATQIPCK RFIYYFPTSG GCIKPGIIFI SRRGTQVCAD PSDRRVQRCL STLKQGPRSG NKVIA.

Biological Activity: Determined by its ability to chemoattract human CCR1 transfected BaF3 mouse proB cells using a concentration range of 0.05-0.25 µg/ml.

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<i>small</i>	2 µg	Cat.N°	12344882
<i>medium</i>	10 µg	Cat.N°	12344883

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