

Recombinant Murine Protein C10/CCL6

Information

Gene ID	20305
Accession #	P27784
Alternate Names	Small-inducible Cytokine A6
Source	Escherichia coli.
M.Wt	Approximately 10.7 kDa, a single non-glycosylated polypeptide chain containing 95 amino acids.
AA Sequence	GLIQEIEKED RRYNPPIIHQ GFQDTSSDCC FSYATQIPCK RFIYYFPTSG GCIKPGIIFI SRRGTQVCAD PSDRRVQRCL STLKQGPRSG NKVIA
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 Tris, pH 8.0, 500 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 biologically active determined by a chemotaxis bioassay using human CCR1 transfected murine BaF3 cells is in a concentration range 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	10µg	100µg	500µg
Recombinant Murine Protein C10/CCL6	10µg	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	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rMuC10/CCL6 as determined by LAL method.

Description

Chemokine (C-C motif) ligand 6 (CCL6), encoded by the gene CCL6, is a small cytokine belonging to the CC chemokine family that has only been identified in rodents. Murine CCL6 is expressed in myelopoietic bone marrow cultures when stimulated with GM-CSF, M-CSF, IL-3 or IL-4 and has also been detected in an IL-2-dependent T cell line, where the expression is inhibited following T cell stimulation. It signals primarily through the CCR1 receptor. CCL6 is chemotactic for B cells, CD4+ T cells, monocytes and NK cells and also exhibits powerful suppressive activity on colony formation by different lineages of hematopoietic progenitors. The C10 contains the four highly conserved cysteine residues present in CC chemokines.

Reference

1. Berger MS, Kozak CA, Gabriel A, et al. 1993. DNA Cell Biol. 12:839-47
2. Orlofsky A, Berger MS, Prystowsky MB. 1991. Cell Regul. 2:403-12
3. Ma B, Zhu Z, Homer RJ, et al. 2004. J Immunol. 172:1872-81.

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