
Product Data Sheet

Product Name: C-10 Rat
 Cat. No.: GP21074
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Small inducible cytokine A6; CCL6; C10 protein; c10; MRP-1; Scya6; chemokine (C-C motif) ligand 6.		
Amino Acid Sequence	GLIQDTVKED RPFNPTIIHQ GFQDSSDCCF SYASQIPCSR FIYYFPTSGG CTKPGIIFVT RKRKRVCANP SDQRVQTCIS TLKLGPRSGN SAIA.		
Solubility	It is recommended to reconstitute the lyophilized C-10 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered concentrated (1.0mg/ml) solution in 16 ⁺ PBS, pH 7.4.		

Introduction

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.

Biological Activity

Determined by its ability to chemoattract human CCR1 transfected BaF3 mouse proB

Caution: Product has not been fully validated for medical applications. For research use only.

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cells using a concentration range of 0.05-0.25 ug/ml.

Stability

Lyophilized C-10 although stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution C-10 should be stored at 4C between 2-7 days and for future use below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

C-10 Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 94 amino acids and having a total molecular mass of 10.4kDa. C-10 is purified by proprietary chromatographic techniques.

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