

Growth Factor Data Sheet

GoldBio growth factors are manufactured for RESEARCH USE ONLY and cannot be sold for human consumption!

Rat CCL7 is a chemokine containing four conserved cysteine residues, of which the first two are adjacent. It was first isolated from murine mast cells stimulated by IgE interacting with an antigen and is expressed and secreted by T cells, monocytes, macrophages, and a variety of tumor cell lines. Expression is induced by IFNG and inhibited by IL13. It is chemotactic for monocytes, macrophages, eosinophils, and NK cells and regulates protease secretion by macrophages which may contribute to metastasis of cancer cells. CCL7 also promotes neuritogenesis in midbrain dopamine neuron cultures. CCL7 is a ligand primarily for CCR2, as well as CCR1, CCR3, CCR10, and ACKR2 (D6).

Catalog Number	2540-07
Product Name	CCL7, Rat Recombinant Rat Chemokine (C-C motif) Ligand 7 (CCL7) Monocyte Chemoattractant Protein 3 (MCP3, MCP-3) Small Inducible Cytokine Subfamily A Member 7 (SCYA7) Fibroblast-Inducible Cytokine (FIC) Mast Cell Activation-Related Chemokine (MARC)
Source	<i>Escherichia coli</i>
MW	~8.5 kDa (74 amino acids)
Sequence	QPDGNTSSTC CYVKKQKIPK RNLKSYRKIT SSRCPWEAVI FKTKKGMEVC AEAHQKWVEE AIAYLDMKTS TPKP
Accession Number	Q9QXY8
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The biologically active determined by a chemotaxis bioassay using human monocytes is in a concentration range of 10-100 ng/ml.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.