

CCL3 Protein, Rat

Cat. No.:	HY-P71898
Synonyms:	Ccl3; Mip1a; Scya3; C-C motif chemokine 3; Macrophage inflammatory protein 1-alpha; MIP-1-alpha; Small-inducible cytokine A3
Species:	Rat
Source:	E. coli
Accession:	P50229 (A24-A92)
Gene ID:	25542
Molecular Weight:	Approximately 7.9-10kDa

PROPERTIES

AA Sequence	<p>A P Y G A D T P T A C C F S Y G R Q I P R K F I A D Y F E T S S L C S Q P G V I</p> <p>F L T K R N R Q I C A D P K E T W V Q E Y I T E L E L N A</p>
Biological Activity	<p>1. Fully biologically active when compared to standard. The biological activity determined by a chemoattract bioassay using human blood monocytes is in a concentration range of 10-100 ng/mL.</p> <p>2. Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with human CCR5. The ED₅₀ for this effect is 3.140 ng/mL, corresponding to a specific activity is 3.185×10⁵ U/mg.</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm solution of PBS, pH 7.4 or 50 mM Tris-HCL, 300 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in sterile distilled water. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>CCL3 protein, a monokine with inflammatory and chemokinetic properties, exhibits chemotactic activity for a variety of immune cells, including monocytes, neutrophils, eosinophils, basophils, and lymphocytes. It plays a crucial role in lung TNF-alpha production, neutrophil recruitment, and subsequent lung injury, potentially serving as an autocrine mediator for macrophage-produced TNF-alpha. This, in turn, up-regulates vascular adhesion molecules essential for neutrophil influx. Additionally, CCL3 protein demonstrates binding affinity for heparin.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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