

Recombinant Rat CXCL10

Cat. No. CXCL10-86R **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Rat IP-10/CXCL10 was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.

Species

Rat

Source

Yeast

Description

C-X-C motif chemokine 10 (CXCL10) also known as Interferon gamma-induced protein 10 (IP-10) or small-inducible cytokine B10 is a member of the C-X-C chemokine family. CXCL10 (IP-10) is secreted by several cell types in response to IFN-gamma. These cell types include monocytes, endothelial cells and fibroblasts. CXCL10 (IP-10) has been attributed to several roles, such as chemoattraction for monocytes/macrophages, T cells, NK cells, and dendritic cells, promotion of T cell adhesion to endothelial cells, antitumor activity, and inhibition of bone marrow colony formation and angiogenesis. There have been 17 different C-X-C chemokines described in mammals, that are subdivided into two categories, those with a specific amino acid sequence (or motif) of glutamic acid-leucine-arginine (or ELR for short) immediately before the first cysteine of the C-X-C motif (ELR-positive), and those without an ELR motif (ELR-negative). ELR-positive C-X-C chemokines specifically induce the migration of neutrophils, and interact with chemokine receptors CXCR1 and CXCR2. C-X-C chemokines that lack the ELR motif are chemoattractant for lymphocytes. CXCL10 (IP-10) elicits its effects by binding to the cell surface chemokine receptor CXCR3.

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Form	Lyophilized
Molecular Mass	8.7 kDa
AA Sequence	IPLARTVRCT CIDFHEQPLR PRAIGKLEII PASLSCPHVE IIATMKKNNE KRCLNPESEA IKSLLKAVSQ RRSKRAP (77)
Applications	The Rat IP-10/CXCL10 protein can be used in cell culture, as an IP-10/CXCL10 ELISA Standard, and as a Western Blot Control.
Storage	-20 C

GENE INFORMATION

Gene Name	Cxcl10 chemokine (C-X-C motif) ligand 10 [Rattus norvegicus]
Official Symbol	CXCL10
Synonyms	CXCL10; chemokine (C-X-C motif) ligand 10; C-X-C motif chemokine 10; gamma-IP10; protein Mob-1; small-inducible cytokine B10; interferon-inducible protein 10; interferon-inducible cytokine IP-10; 10 kDa interferon gamma-induced protein; small inducible cytokine B subfamily (Cys-X-Cys) member 10; small inducible cytokine B subfamily (Cys-X-Cys), member 10; IP-10; Scyb10;
Gene ID	245920
mRNA Refseq	NM_139089
Protein Refseq	NP_620789
Pathway	Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine

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signaling pathway, organism-specific biosystem; Chemokine signaling pathway, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytosolic DNA-sensing pathway, organism-specific biosystem;

Function

chemokine activity; chemokine activity; cytokine activity;

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