

## Recombinant Canine CXCL10 (IP-10)

Cat. No. CXCL10-65C Lot. No. (See product label)

### SPECIFICATION

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

**Species** Canine

**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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	8.6 kDa
<b>AA Sequence</b>	IPLSRTIRCT CIKISDQPVN LRSLEKIEMI PASPSCPHVE IIATMKKSGE KRCLNPESKT IKSLVKAISK KRSRRSP (77)
<b>Applications</b>	The Canine IP-10/CXCL10 protein can be used in cell culture, as an IP-10/CXCL10 ELISA Standard, and as a Western Blot Control.
<b>Storage</b>	-20 C

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