Recombinant Rat CXCL9 (MIG)

Cat. No. CXCL9-93R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rat CXCL9/MIG was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Rat
Source	Yeast
Description	Chemokine (C-X-C motif) ligand 9 (CXCL9) is a small cytokine belonging to the CXC chemokine family. It is also commonly known as Monokine Induced by Gamma interferon (MIG). CXCL9 (MIG) is a T-cell chemoattractant, which is induced by IFN-gamma. It is closely related to two other CXC chemokines -CXCL10 and CXCL11. 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. CXCL9 (MIG) elicits its effects by binding to the cell surface chemokine receptor CXCR3.
Form	Lyophilized
Molecular Mass	12.0 kDa
AA Sequence	TLVIRNQRCS CISTSQGTFH YKSLKDLKQF APSPNCNKTE IIATLKNGDQ

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	TCLDPDSARV KKLMKEWEKK ISQKKKQKRG KNHQRSKKTR KAKTPHHPES KKTA (104)
Applications	The rat CXCL9/MIG protein can be used in cell culture, as a CXCL9/MIG ELISA Standard, and as a Western Blot Control.
Storage	-20 C

GENE INFORMATION

Gene Name	Cxcl9 chemokine (C-X-C motif) ligand 9 [Rattus norvegicus]
Official Symbol	CXCL9
Synonyms	CXCL9; chemokine (C-X-C motif) ligand 9; C-X-C motif chemokine 9; small inducible cytokine B9; monokine induced by gamma interferon; Mig; Scyb9; MGC105312;
Gene ID	246759
mRNA Refseq	NM_145672
Protein Refseq	NP_663705
Pathway	Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine 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; G alpha (i) signalling events, organism-specific biosystem;
Function	CXCR3 chemokine receptor binding; chemokine activity;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA