

Recombinant Mouse CXCL9 (MIG)

Cat. No. CXCL9-73M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse CXCL9/MIG was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Mouse
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	12.2 kDa
AA Sequence	TLVIRNARCS CISTSRGTIH YKSLKDLKQF APSPNCNKTE IIATLKNGDQ

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TCLDPDSANV KKLMKEWEKK INQKKKQKRG KKHQKNMKNR KPKTPQSRRR
SRKTT (105)

Applications

The mouse 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 [*Mus musculus*]

Official Symbol

CXCL9

Synonyms

CXCL9; chemokine (C-X-C motif) ligand 9; C-X-C motif chemokine 9; M119; protein m119; small-inducible cytokine B9; gamma interferon-induced monokine; gamma-interferon-induced monokine; monokine induced by gamma interferon; monokine induced by interferon-gamma; small inducible cytokine B subfamily (Cys-X-Cys), member 9; CMK; Mig; MuMIG; Scyb9; crg-10; BB139920;

Gene ID

17329

mRNA Refseq

NM_008599

Protein Refseq

NP_032625

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

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events, organism-specific biosystem;

Function

cytokine activity;

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