

Recombinant Human CXCL9 (MIG)

Cat. No. CXCL9-72H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CXCL9/MIG was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Human
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	11.7 kDa
AA Sequence	TPVVRKGRCS CISTNQGTIH LQSLKDLKQF APSPSCEKIE IIATLKNGVQ

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TCLNPDSADV KELIKKWEKQ VSQKKKQKNG KKHQKKKVLK VRKSQRSRQK KTT
(103)

Applications

The human 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 [Homo sapiens]

Official Symbol

CXCL9

Synonyms

CXCL9; chemokine (C-X-C motif) ligand 9; CMK, MIG, monokine induced by gamma interferon; C-X-C motif chemokine 9; crg 10; Humig; SCYB9; small-inducible cytokine B9; gamma-interferon-induced monokine; monokine induced by gamma interferon; monokine induced by interferon-gamma; CMK; MIG; crg-10;

Gene ID

4283

mRNA Refseq

NM_002416

Protein Refseq

NP_002407

MIM

601704

UniProt ID

Q07325

**Chromosome
Location**

4q21

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Pathway

CXCR3-mediated signaling events, organism-specific biosystem; 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;

Function

chemokine activity; cytokine activity;

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