

## Active Recombinant Human CXCL9 Protein, His tagged

Cat. No. CXCL9-027H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	MIG/CXCL9 Protein, Human (HEK293, His) is produced in HEK293 cells with six C-Terminal His-tags. It consists of 103 amino acids (T23-T125).
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	23-125 aa
<b>Description</b>	This antimicrobial gene is part of a chemokine superfamily that encodes secreted proteins involved in immunoregulatory and inflammatory processes. The protein encoded is thought to be involved in T cell trafficking. The encoded protein binds to C-X-C motif chemokine 3 and is a chemoattractant for lymphocytes but not for neutrophils.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
<b>Bio-activity</b>	Measured by its ability to chemoattract THP-1 cells. The ED50 for this effect is ≤80.07 ng/mL, corresponding to a specific activity is ≥1.249×10 <sup>4</sup> U/mg.
<b>Molecular Mass</b>	12.8 kDa
<b>AASequence</b>	TPVVRKGRCSICISTNQGTIHLQSLKDLKQFAPSPSCEKIEIIATLKNQVQTCLNPDSAD VKELIKKWEKQVSQKKKQKNGKHKHQKKKVLKVRKSQRSRQKKTT

 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>Endotoxin</b>	< 1 EU/μg by LAL
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE.
<b>Storage</b>	Stored at -20 centigrade for 2 years from date of receipt. After reconstitution, it is stable at 4 centigrade for 1 week or -20 centigrade for longer (with carrier protein). It is recommended to freeze aliquots at -20 or -80 centigrade for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Reference</b>	1. Qiang Ding, et al. CXCL9: evidence and contradictions for its role in tumor progression. <i>Cancer Med.</i> 2016 Nov;5(11):3246-3259. 2. Weigang Xiu, et al. CXCL9 secreted by tumor-associated dendritic cells up-regulates PD-L1 expression in bladder cancer cells by activating the CXCR3 signaling. <i>BMC Immunol.</i> 2021 Jan 6;22(1):3. 3. Chao-Feng Lin, et al. Potential Effects of CXCL9 and CCL20 on Cardiac Fibrosis in Patients with Myocardial Infarction and Isoproterenol-Treated Rats. <i>J Clin Med.</i> 2019 May 11;8(5):659.

## GENE INFORMATION

<b>Gene Name</b>	CXCL9 chemokine (C-X-C motif) ligand 9 [ <i>Homo sapiens (human)</i> ]
<b>Official Symbol</b>	CXCL9
<b>Synonyms</b>	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;

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monokine induced by interferon-gamma; CMK; MIG; crg-10

**Gene ID** 4283

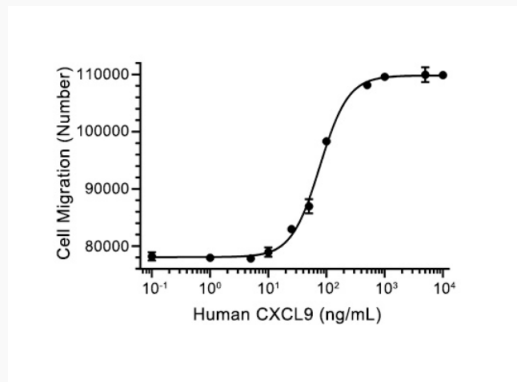
**mRNA Refseq** NM\_002416

**Protein Refseq** NP\_002407

**MIM** 601704

**UniProt ID** Q07325

**Bioactivity**



Measured by its ability to chemoattract THP-1 human peripheral blood T-lymphocytes. The ED50 for this effect is 76.70 ng/mL, corresponding to a specific activity is  $1.304 \times 10^4$  U/mg.

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