

Active Recombinant Human CXCL9 Protein, His tagged

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	HEK293
ProteinLength	23-125 aa
Description	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.
Form	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Bio-activity	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 ⁴ U/mg.
Molecular Mass	12.8 kDa
AASequence	TPVVRKGRCSICSTNQGTIHLQSLKDLKQFAPSPSCEKIEIIATLKNGVQTCLNPDSAD VKELIKKWEKQVSQKKKQKNGKKHKQKKKVLKVRKSQRSRQKKTT

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Endotoxin	< 1 EU/μg by LAL
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Storage	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.
Shipping	Room temperature in continental US; may vary elsewhere.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Reference	1. Qiang Ding, et al. CXCL9: evidence and contradictions for its role in tumor progression. Cancer Med. 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. BMC Immunol. 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. J Clin Med. 2019 May 11;8(5):659.

GENE INFORMATION

Gene Name	CXCL9 chemokine (C-X-C motif) ligand 9 [Homo sapiens (human)]
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;

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

Gene ID 4283

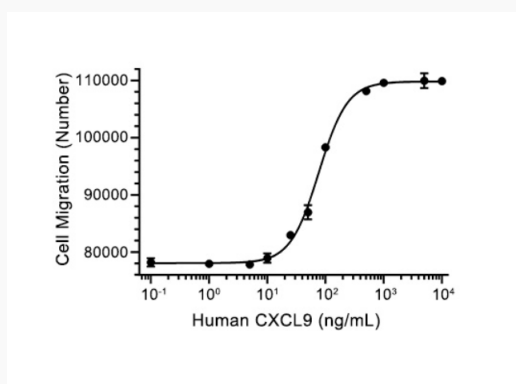
mRNA Refseq NM_002416

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 1.304×10^4 U/mg.

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