

CCL9/10/MIP-1 gamma Protein, Mouse

Cat. No.:	HY-P7772
Synonyms:	rMuCCL9; C-C motif chemokine 9; Macrophage inflammatory protein 1-gamma; Small-inducible cytokine A9; Scya9; CCL9.
Species:	Mouse
Source:	E. coli
Accession:	P51670 (Q22-Q122)
Gene ID:	20308
Molecular Weight:	Approximately 15 kDa

PROPERTIES

AA Sequence	<p>Q I T H A T E T K E V Q S S L K A Q Q G L E I E M F H M G F Q D S S D C C L S Y</p> <p>N S R I Q C S R F I G Y F P T S G G C T R P G I I F I S K R G F Q V C A N P S D</p> <p>R R V Q R C I E R L E Q N S Q P R T Y K Q</p>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM Tris-HCl, 300 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O or PBS.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>CCL9, a chemokine also known as macrophage inflammatory protein-1 gamma (MIP-1γ), is often produced in macrophages, osteoclasts, and functions as a cell survival factor. Among CC chemokine family members, the mouse CCL9 shares 45, 24, and 20% aa sequence identity with mouse CCL6 (C10), CCL3 (MIP-1α), and CCL4 (MIP-1β), respectively. CCL9/CCR1 signaling is important for the recruitment of myeloid progenitors to intestinal tumors, leading to enhanced invasion. CCL9 is highly induced in immature myeloid cells in the premetastatic lung of tumor-bearing mice or in co-culture with tumor cells, and it plays a critical role in tumor cell survival at the metastatic site^{[1][2]}.</p>
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REFERENCES

- [1]. Hangyi H Yan, et al. CCL9 Induced by TGF β Signaling in Myeloid Cells Enhances Tumor Cell Survival in the Premetastatic Organ. *Cancer Res.* 2015 Dec 15;75(24):5283-98.
- [2]. Xinyan Zhao, et al. CCL9 is secreted by the follicle-associated epithelium and recruits dome region Peyer's patch CD11b+ dendritic cells. *J Immunol.* 2003 Sep 15;171(6):2797-803.
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Caution: Product has not been fully validated for medical applications. For research use only.

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