

MCP-2/CCL8 Protein, Human (HEK293, His)

Cat. No.:	HY-P7770
Synonyms:	rHuCCL8, His; C-C Motif Chemokine 8; HC14; Monocyte Chemoattractant Protein 2; Monocyte Chemotactic Protein 2; MCP-2; Small-Inducible Cytokine A8; CCL8; MCP2; SCYA10; SCYA8
Species:	Human
Source:	HEK 293
Accession:	P80075 (Q24-P99)
Gene ID:	6355
Molecular Weight:	Approximately 13 kDa

PROPERTIES

AA Sequence	<p>Q P D S V S I P I T C C F N V I N R K I P I Q R L E S Y T R I T N I Q C P K E A</p> <p>V I F K T K R G K E V C A D P K E R W V R D S M K H L D Q I F Q N L K P H H H H</p> <p>H H</p>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 20 mM PB, 150 mM NaCl, 1 mM EDTA, pH 7.4.
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>Chemokine (C-C motif) ligand 8 (CCL8), also known as MCP-2, was first identified in human osteosarcoma cells, and functions in a wide variety of inflammatory cells as a chemotactic factor. CCL8 contributes to the dissemination of breast cancer, and promotes the migration and invasion of esophageal squamous cell carcinoma. On the other hand, it has also been reported that CCL8 inhibits growth of cervical carcinoma tumors and exhibits an antitumor metastatic effect in melanoma. CCL8 dramatically activates ERK1/2 phosphorylation in glioblastoma cells, and blocking TAM-secreted CCL8 by neutralized antibody significantly decreases invasion of glioma cells^[1].</p>
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REFERENCES

[1]. Xiang Zhang, et al. CCL8 secreted by tumor-associated macrophages promotes invasion and stemness of glioblastoma cells via ERK1/2 signaling. Lab Invest. 2020 Apr;100(4):619-629.

Caution: Product has not been fully validated for medical applications. For research use only.

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