

CCL24/Eotaxin-2 Protein, Mouse

Cat. No.:	HY-P7760
Synonyms:	rMuCCL24; C-C motif chemokine 24; Eosinophil chemotactic protein 2; Eotaxin-2; Small-inducible cytokine A24; Scya24; Ccl24;
Species:	Mouse
Source:	E. coli
Accession:	Q9JKC0 (V27-V119)
Gene ID:	56221
Molecular Weight:	Approximately 12 kDa

PROPERTIES

AA Sequence	V T I P S S C C T S F I S K K I P E N R V V S Y Q L A N G S I C P K A G V I F I T K K G H K I C T D P K L L W V Q R H I Q K L D A K K N Q P S K G A K A V R T K F A V Q R R R G N S T E V
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH7.4.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). 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>CCL24, also known as eosinophil chemotactic protein 2 (eotaxin-2) and myeloid progenitor inhibitory factor 2 (MPIF-2), is a small cytokine of the CC chemokine family, located on chromosome 7 in the human genome. CCL24 is highly chemotactic for resting T lymphocytes and eosinophils and has low chemotactic activity for neutrophils, but not for monocytes and activated lymphocytes. By binding to its sole receptor CCR3, of which CCR3, is present mainly on eosinophils, but also on basophils, monocytes, Th2 lymphocytes, epithelial cells and airway smooth muscle. CCL24 mainly mediates atopic diseases, parasitic infections and systemic diseases, but also promotes cellular transport and regulates inflammatory and fibrotic activities^{[1][2]}.</p>
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REFERENCES

- [1]. Hui Li, et al. Trophoblasts-derived chemokine CCL24 promotes the proliferation, growth and apoptosis of decidual stromal cells in human early pregnancy. *Int J Clin Exp Pathol*. 2013 May 15;6(6):1028-37.
- [2]. Michal Segal-Salto, et al. A blocking monoclonal antibody to CCL24 alleviates liver fibrosis and inflammation in experimental models of liver damage. *JHEP Rep*. 2020 Jan 2;2(1):100064.
- [3]. Adi Mor, et al. Blockade of CCL24 with a monoclonal antibody ameliorates experimental dermal and pulmonary fibrosis. *Ann Rheum Dis*. 2019 Sep;78(9):1260-1268.
- [4]. Amanda K Huber, et al. An emerging role for eotaxins in neurodegenerative disease. *Clin Immunol*. 2018 Apr;189:29-33.
- [5]. Adi Mor. et al. Blockade of CCL24 with a monoclonal antibody ameliorates experimental dermal and pulmonary fibrosis. *Ann Rheum Dis*. 2019 Sep;78(9):1260-1268.
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Caution: Product has not been fully validated for medical applications. For research use only.

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