Bertilimumab

Cat. No.: HY-P99474

CAS No.: 375348-49-5

Target: CCR

Pathway: GPCR/G Protein; Immunology/Inflammation

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Bertilimumab (CAT 213; iCo-008) is a human monoclonal antibody targeting eotaxin-1 (CCL11). Bertilimumab has the potential for allergic disorders research[1].

In Vitro

Bertilimumab (CAT 213) neutralizes the ability of eotaxin-1 to cause an increase in intracellular calcium signaling (with an IC_{50} value of 2.86 nM), migration of CCR3-expressing L1.2 cells (with an IC_{50} value of 0.48 nM), and inhibition of the eotaxin1-evoked shape change of human eosinophils in vitro (with an IC_{50} of 0.71 nM)[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Bertilimumab (CAT 213) (0.01-10 mg/kg) administered i.v. 30 min before i.po. injection of human eotaxin1 (1 μg) causes a significant dose-dependent inhibition of eosinophil recruitment in IL-5-treated, ovalbumin-sensitized mice. Bertilimumab also significantly inhibits neutrophil and mononuclear cell influx into the air pouch, which resulted in a dose-related inhibition of total cell influx[1].

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Animal Model:	Female BALB/c mice (17-21 g) injected human eotaxin1[1].
Dosage:	0.01 mg/kg, 0.1 mg/kg, 1 mg/kg, 10 mg/kg
Administration:	i.v; once
Result:	Caused a significant dose-dependent inhibition of eosinophil recruitment in IL-5-treated, ovalbumin-sensitized mice.

REFERENCES

[1]. Sarah Main, et al. A potent human anti-eotaxin1 antibody, CAT-213: isolation by phage display and in vitro and in vivo efficacy. J Pharmacol Exp Ther. 2006 Dec;319(3):1395-404.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA