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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Mitazalimab

Cat. No.:	HY-P99742
CAS No.:	2055640-86-1
Target:	TNF Receptor
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Mitazalimab (ADC-1013; JNJ-64457107) is FcγR-dependent CD40 agonist with tumor-directed activity. Mitazalimab activates antigen-presenting cells, e.g. dendritic cells (DC), to initiate tumor-reactive T cells. Therefore, Mitazalimab induces tumor-specific T cells to infiltrate and kill tumors. Mitazalimab remodels the tumor-infiltrating myeloid microenvironment ^{[1][2]} .								
IC₅₀ & Target	CD40								
In Vitro	Mitazalimab (1 ng/mL-10 μg/mL) activates tumor associated macrophages (TAMs) in prostate tumor or ovarian tumor samples from human ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	<p>Mitazalimab (100 μg/mouse; i.p.; single dose) activates splenic DC and B cells in Naïve hCD40tg mice, and also results expansion of OVA-specific CD8+ T cells in OVA-rechallenged (200 μg; i.v.; 3 times for 7 days between) mice^[1].</p> <p>Mitazalimab (100 and 300 μg/mouse, i.p.; on day 7, 10 and 13 post-inoculation) induces the release of proinflammatory cytokines and chemokines in the blood in MB49 (mouse bladder tumor cell line) bearing mice, and alters the composition of tumor myeloid cells, such that reduces monocytes and macrophages in favor of granulocytic cell^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>MB49-tumor bearing mice model^[1]</td> </tr> <tr> <td>Dosage:</td> <td>10, 30, 100 or 300 μg/mouse</td> </tr> <tr> <td>Administration:</td> <td>Intraperitoneal injection; on day 7, 10 and 13 post-inoculation; sampled at 24 h after final dose</td> </tr> <tr> <td>Result:</td> <td>Increased the level of IP-10, MIP-1α and TNF-α, but not CXCL1, IFN-γ, IL-6, IL-10, MCP-1 and MIP-2. Resulted in increased frequency of CD44hi CD62L-effector memory CD8+ and CD4+ T cells.</td> </tr> </table>	Animal Model:	MB49-tumor bearing mice model ^[1]	Dosage:	10, 30, 100 or 300 μg/mouse	Administration:	Intraperitoneal injection; on day 7, 10 and 13 post-inoculation; sampled at 24 h after final dose	Result:	Increased the level of IP-10, MIP-1α and TNF-α, but not CXCL1, IFN-γ, IL-6, IL-10, MCP-1 and MIP-2. Resulted in increased frequency of CD44hi CD62L-effector memory CD8+ and CD4+ T cells.
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REFERENCES

[1]. Deronic A, et al. The human anti-CD40 agonist antibody mitazalimab (ADC-1013; JNJ-64457107) activates antigen-presenting cells, improves expansion of antigen-specific T cells, and enhances anti-tumor efficacy of a model cancer vaccine in vivo. *Cancer Immunol Immunother.* 2021 Dec;70(12):3629-3642.

[2]. Smith K E, et al. Mitazalimab, a potent CD40 agonist in combination with chemotherapy redirects and activates tumor infiltrating myeloid cells[J]. Cancer Research, 2022, 82(12_Supplement): 4155-4155.

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