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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) 

Avelumab (anti-PD-L1)

Cat. No.:	HY-108730A
CAS No.:	1537032-82-8
Target:	PD-1/PD-L1
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Avelumab (anti-PD-L1) is a fully human IgG1 anti-PD-L1 monoclonal antibody with potential antibody-dependent cell-mediated cytotoxicity ^[1] .
In Vitro	<p>Avelumab is a fully human IgG1 anti-PD-L1 monoclonal antibody with potential antibody-dependent cell-mediated cytotoxicity property. Avelumab increases NK-cell lysis 3.1-fold (P=0.01) in JHC7 cells relative to isotype control. When the cells are treated with IFN-γ, Avelumab markedly enhances NK-cell lysis relative to isotype control in the following cell lines: JHC7 (7.56-fold; P=0.001), UM-Chor1 (7.34-fold; P<0.001), U-CH2 (2.6 fold; P=0.008), MUG-Chor1 (8.38-fold; P=0.0016). Avelumab effectively increases antibody-dependent cell-mediated cytotoxicity (ADCC) of both the non-cancer stem cell (CSC) and CSC subpopulations to the same degree^[1]. Results also demonstrate that the addition of Avelumab increases the frequency of antigen-specific multifunctional CD8+ T cells by more than fivefold, relative to the isotype control in CEFT-stimulated peripheral blood mononuclear cells (PBMCs) ^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
In Vivo	<p>Measurement of individual tumors clearly shows a slowing of tumor growth in the Avelumab-treated mice. By day 36 post-tumor implantation, there is a significant (P<0.01) reduction in the average tumor volume of the Avelumab-treated mice. Reduction in MB49 tumor growth in the mice treated with Avelumab is durable and leads to a significant (P<0.05) improvement in percent survival. Avelumab treatment of 10 mice with bladder tumors results in complete tumor regression in 8 mice, confirmed by histopathology. However, in mice depleted of either CD4 or CD8 cells, Avelumab treatment is much less effective in controlling bladder tumor burden with tumor breakthrough occurring in a higher frequency in mice depleted of CD4 T cells^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Signal Transduct Target Ther. 2023 Mar 15;8(1):107.
- Cancer Lett. 2024 Jan 9, 216615.
- Cancer Immunol Immunother. 2023 Jan 19.
- Eur J Pharmacol. 2023 Oct 20:176128.
- Clin Exp Immunol. 2021 Mar 18.

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REFERENCES

- [1]. Fujii R, et al. Enhanced killing of chordoma cells by antibody-dependent cell-mediated cytotoxicity employing the novel anti-PD-L1 antibody avelumab. *Oncotarget*. 2016 Jun 7;7(23):33498-511.
- [2]. Grenga I, et al. A fully human IgG1 anti-PD-L1 MAb in an in vitro assay enhances antigen-specific T-cell responses. *Clin Transl Immunology*. 2016 May 20;5(5):e83.
- [3]. Vandever AJ, et al. Systemic Immunotherapy of Non-Muscle Invasive Mouse Bladder Cancer with Avelumab, an Anti-PD-L1 Immune Checkpoint Inhibitor. *Cancer Immunol Res*. 2016 May;4(5):452-62.
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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