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Zuschläge

- Mindermengenzuschlag
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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

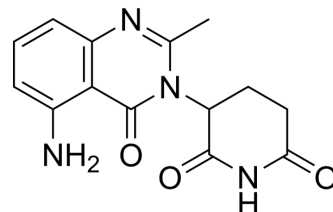
mail@szabo-scandic.com

www.szabo-scandic.com

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

Avadomide

Cat. No.:	HY-100507
CAS No.:	1015474-32-4
Molecular Formula:	C ₁₄ H ₁₄ N ₄ O ₃
Molecular Weight:	286.29
Target:	E1/E2/E3 Enzyme; Apoptosis; Molecular Glues
Pathway:	Metabolic Enzyme/Protease; Apoptosis; PROTAC
Storage:	<div>Powder</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 1 year</div> <div>-20°C 6 months</div>



SOLVENT & SOLUBILITY

In Vitro	DMSO : 33.33 mg/mL (116.42 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		3.4930 mL	17.4648 mL	34.9296 mL
		5 mM		0.6986 mL	3.4930 mL	6.9859 mL
	10 mM		0.3493 mL	1.7465 mL	3.4930 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (8.73 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Avadomide (CC 122) is an orally active cereblon modulator. Avadomide modulates cereblon E3 ligase activity and induces apoptosis of diffuse large B-cell lymphoma (DLBCL) cell lines. Avadomide exhibits potent antitumor and immunomodulatory activities ^{[1][2]} .
In Vitro	Avadomide inhibits proliferation and induces apoptosis in ABC and GCB DLBCL. In DLBCL cell lines, Avadomide-induced degradation or short hairpin RNA-mediated knockdown of Aiolos and Ikaros correlates with increased transcription of IFN-stimulated genes independent of IFN-α, -β, and -γ production and/or secretion and results in apoptosis in both activated B-cell (ABC) and germinal center B-cell DLBCL.[1] MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Treatment of female CB-17 SCID mice with Avadomide (CC122) at 3 or 30 mg/kg once daily significantly decreased tumor growth in OCI-LY10 ABC-DLBCL (P = .028 and P < .001, respectively) and WSU-DLCL2 GCB-DLBCL derived xenograft models (P

< .01) compared with the vehicle control. In a separate study, we assessed the ability of Avadomide (CC122) to promote degradation of Ikaros and Aiolos in vivo. In the 21-day efficacy study of WSU-DLCL2 xenograft transplanted mice, tumors were excised 1, 6, or 24 hours post final dosing. Aiolos and Ikaros expression was interrogated through immunohistochemistry (IHC) and was found to be decreased 64% and 30%, respectively, compared with vehicle within 1 hour of treatment, with a maximal reduction of 94% and 69%, respectively, observed at 6 hours. Aiolos and Ikaros levels partially recovered 24 hours postdosing with protein level within 20% and 34% of vehicle, respectively. The 24-hour postdose Aiolos and Ikaros expression represents the trough compound level following multiple doses of Avadomide (CC122). When the 1-hour time point is compared with the 24-hour postdose time point, there is a significant reduction in Aiolos but not Ikaros expression; however, at the 6-hour time point, both transcription factors are significantly different from the 24-hour time point. Taken together, these data reveal that Avadomide (CC122) inhibited DLBCL tumor growth in vivo and that this activity was associated with the degradation of Aiolos and Ikaros in both ABC- and GCB-DLBCL xenograft models.[1]

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PROTOCOL

Animal Administration

Female SCID mice (CB17/Icr-Prkdcscid, Charles River) were 8 weeks old, with body weights ranging from 15.0 to 23.2 g, on day 1 of these studies. Each SCID mouse was injected subcutaneously in the right flank with 5×10^6 OCI-LY10 cells (0.2 ml cell suspension). Tumors were calipered in two dimensions to monitor growth as their mean volume approached 100–150 mm³. Fourteen days (WSU-DLCL2) or twenty-one days (OCI-LY10) after tumor cell implantation, mice were sorted into treatment groups (n=10/group). Tumors were callipered twice weekly during the study. Avadomide (CC122) was suspended in 0.5% carboxymethyl cellulose: 0.25% Tween-80 in de-ionized water. Vehicle and Avadomide (CC122) were each administered via oral gavage (p.o.) once daily for twenty-eight days (qd x28). [1]

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

CUSTOMER VALIDATION

- Nat Commun. 2020 Jul 14;11(1):3508.
- Cell Chem Biol. 2020 Jul 16;27(7):866-876.e8.
- iScience. 2023 Jun 1.
- iScience. 2023 Jun 7;26(7):107059.
- Cancer Chemother Pharmacol. 2023 Jul 26.

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REFERENCES

- [1]. Hagner, P.R.et al.CC-122, a pleiotropic pathway modifier, mimics an IFN response and has antitumor activity in DLBCL.Blood.Aug 6;126(6):779-89.
- [2]. Rasco DW, et al. A First-in-Human Study of Novel Cereblon Modulator Avadomide (CC-122) in Advanced Malignancies. Clin Cancer Res. 2019 Jan 1;25(1):90-98.

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