

Solvent&Solubility	——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用； 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶 1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: ≥ 2.5 mg/mL (6.55 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.55 mM，饱和度未知) 的澄清溶液。 以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μL PEG300 中，混合均匀向上述体系中加入 50 μL Tween-80，混合均匀；然后继续加入 450 μL 生理盐水定容至 1 mL。 2.请依序添加每种溶剂： 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.55 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.55 mM，饱和度未知) 的澄清溶液。 以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水溶液中，混合均匀。 3.请依序添加每种溶剂： 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (6.55 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (6.55 mM，饱和度未知) 的澄清溶液，此方案不适用于实验周期在半个月以上的实验。 以 1 mL 工作液为例，取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。
References	[1]. Howard S, et al. <u>Fragment-Based Discovery of the Pyrazol-4-yl Urea (AT9283), a Multitargeted Kinase Inhibitor with Potent Aurora Kinase Activity</u>. Journal of Medicinal Chemistry (2009), 52(2), 379-388. [2]. Qi W, et al. <u>AT9283, a novel aurora kinase inhibitor, suppresses tumor growth in aggressive B-cell lymphomas</u>. Int J Cancer. 2012 Jun 15;130(12):2997-3005. [3]. Santo L, et al. <u>Antimyeloma activity of a multitargeted kinase inhibitor, AT9283, via potent Aurora kinase and STAT3 inhibition either alone or in combination with lenalidomide</u>. Clin Cancer Res. 2011 May 15;17(10):3259-71
实验参考：	
Cell Assay	Lymphoma cells are seeded at 8,000 per well in 96-well culture plates and allowed to grow for 24 hr followed by the desired treatment with increasing concentrations of the indicated agents for 4 days. Viable cell densities are determined using a CellTiter 96 Cell Proliferation Assay. The IC₅₀ values are estimated by Calcsyn software. [2]
Animal Administration	SCID mice are injected with 1×10⁷ Granta-519 MCL cells subcutaneously into the right hind flank. When tumors reached a volume of appr 60-100 mm³, mice are divided randomly (pair-matched) into six test groups with 12 mice per cohort: control group (saline), AT9283 (15 mg/kg IP Q1D, 5 days a week × 3 weeks) group, AT9283 (20 mg/kg IP Q1D, 5 days a week × 3 weeks) group, docetaxel (10 mg/kg IV Q1W × 3 weeks) group, AT9283 (15 mg/kg IP Q1D, 5 days a week × 3 weeks) + docetaxel (10 mg/kg IV Q1W × 3 weeks) group and AT9283 (20 mg/kg IP Q1D, 5 days a week × 3 weeks) + docetaxel (10 mg/kg IV Q1W × 3 weeks) group. The length (L) and width (W) of the subcutaneous tumors are measured by calipers and the tumor volume (TV) is calculated as: TV=(L × W²)/2. Mice are sacrificed at the end of study and overall survival for each cohort is analyzed by Kaplan–Meier method. [2]

References	[1]. Howard S, et al. <u>Fragment-Based Discovery of the Pyrazol-4-yl Urea (AT9283), a Multitargeted Kinase Inhibitor with Potent Aurora Kinase Activity. Journal of Medicinal Chemistry (2009), 52(2), 379-388.</u> [2]. Qi W, et al. <u>AT9283, a novel aurora kinase inhibitor, suppresses tumor growth in aggressive B-cell lymphomas. Int J Cancer. 2012 Jun 15;130(12):2997-3005.</u> [3]. Santo L, et al. <u>Antimyeloma activity of a multitargeted kinase inhibitor, AT9283, via potent Aurora kinase and STAT3 inhibition either alone or in combination with lenalidomide. Clin Cancer Res. 2011 May 15;17(10):3259-71</u>
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源叶生物