

产品名称: **AZD0156**
产品别名: **AZD0156**

生物活性:				
Description	AZD0156 is an oral, potent and selective ATM inhibitor with an IC ₅₀ of 0.58 nM.			
IC ₅₀ & Target	ATM[1]			
In Vitro	AZD0156 inhibits the kinase activity of ATM and ATM-mediated signaling, prevents DNA damage checkpoint activation, and disrupts DNA damage repair, induces tumor cell apoptosis, and leads to cell death in ATM-overexpressing tumor cells[1].			
Solvent&Solubility	In Vitro: DMSO : 10 mg/mL (21.67 mM; Need ultrasonic) H2O : < 0.1 mg/mL (insoluble)			
	<div>Preparing Stock Solutions</div>	<div>Solvent / Mass / Concentration</div>	1 mg	5 mg
		1 mM	2.1666 mL	10.8328 mL
		5 mM	0.4333 mL	2.1666 mL
		10 mM	0.2167 mL	1.0833 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。 储备液的保存方式和期限：-80℃，6 months；-20℃，1 month。-80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。 In Vivo: 请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液，再依次添加助溶剂： ——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: 0.83 mg/mL (1.80 mM); Clear solution; Need ultrasonic 此方案可获得 0.83 mg/mL (1.80 mM)的澄清溶液。 以 1 mL 工作液为例，取 100 μL 8.3 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: 0.83 mg/mL (1.80 mM); Suspended solution; Need ultrasonic 此方案可获得 0.83 mg/mL (1.80 mM)的均匀悬浊液，悬浊液可用于口服和腹腔注射。 以 1 mL 工作液为例，取 100 μL 8.3 mg/mL 的澄清 DMSO 储备液加到 900 μL 20% 的 SBE-β-CD 生理盐水水溶液中，混合均匀。			
	3.请依序添加每种溶剂： 10% DMSO →90% corn oil Solubility: 0.83 mg/mL (1.80 mM); Clear solution; Need ultrasonic 此方案可获得 0.83 mg/mL (1.80 mM)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 8.3 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。			

References	[1]. Imidazo[4,5-c]quinolin-2-one compounds and their use in treating cancer.?
实验参考:	
Cell Assay	<p>HT29 cells are seeded into 384 well assay plates at a density of 6000 cells/well in 40 μL EMEM medium containing 1% L glutamine and 10% FBS and allowed to adhere overnight. The following morning compound of Formula (I) in 100% DMSO is added to assay plates by acoustic dispensing. After 1h incubation at 37°C and 5% CO₂, 40 nL of 3 mM 4NQO in 100% DMSO is added to all wells by acoustic dispensing, except minimum control wells which are left untreated with 4NQO to generate a null response control. Plates are returned to the incubator for a further 1h. Then cells are fixed by adding 20 μL of 3.7% formaldehyde in PBS solution and incubating for 20 mins at r.t.. Then 20 μL of 0.1% Triton XI 00 in PBS is added and incubated for 10 minutes at r.t., to permeabilise cells. Then the plates are washed once with 50 μL/well PBS, using a Biotek EL405 plate washer. [1]</p>
References	[1]. Imidazo[4,5-c]quinolin-2-one compounds and their use in treating cancer.?



源叶生物