

产品名称: **LY3039478**  
 产品别名: **Crenigacestat**

生物活性:					
Description	Crenigacestat is an orally active Notch and $\gamma$ -secretase inhibitor, with an IC50 of $\sim$ 1nM in most of the tumor cell lines tested[1][2][3][4].				
In Vitro	Crenigacestat (100 nM) exhibits anti-cancer activity in K07074 cells (a primary mouse liver tumor cell line)[2].				
	Crenigacestat (LY3039478) decreases expression of Myc and cyclin A1 (part of the NOTCH-driven proliferative signature) in murine and human model systems. Crenigacestat (LY3039478) treatment also leads to G0/G1 cell cycle arrest in CCRCC cells[3].				
	Cell Viability Assay[2].				
	Cell Line:	K07074 cells.			
	Concentration:	100 nM.			
	Incubation Time:	24-96 hours.			
	Result:	Effectively reduced the growth of K07074 cells.			
In Vivo	Crenigacestat (8 mg/kg, oral gavage three times a week) resulted in significantly increases survival and delayed tumor growth in independent cohorts of mice demonstrating in vivo efficacy in CCRCC[3].				
	Animal Model:	CCRCC xenografts were established in NOD-scid IL2R null mice with subcutaneous implantation using the 769-P cell line[3]..			
	Dosage:	8 mg/kg.			
	Administration:	Oral gavage three times a week.			
	Result:	Resulted in increased overall survival when compared with vehicle control in CCRCC xenografts.			
Solvent&Solubility	In Vitro:				
	DMSO : $\geq$ 34 mg/mL (73.21 mM)				
	* "≥" means soluble, but saturation unknown.				
		<div><div>Solvent / Mass / Concentration</div><div><div></div><div></div><div></div></div></div>	1 mg	5 mg	10 mg
	Preparing	1 mM	2.1531 mL	10.7657 mL	21.5313 mL
	Stock Solutions	5 mM	0.4306 mL	2.1531 mL	4.3063 mL
		10 mM	0.2153 mL	1.0766 mL	2.1531 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°C, 6 months; -20°C, 1 month. -80°C 储存时, 请在 6 个月内使用, -20°C 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: $\geq$ 2.5 mg/mL (5.38 mM); Clear solution					

	<p>此方案可获得 <math>\geq 2.5</math> mg/mL (5.38 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例, 取 100 <math>\mu</math>L 25.0 mg/mL 的澄清 DMSO 储备液加到 400 <math>\mu</math>L PEG300 中, 混合均匀向上述体系中加入 50 <math>\mu</math>L Tween-80, 混合均匀; 然后继续加入 450 <math>\mu</math>L 生理盐水定容至 1 mL。</p> <p>2.请依序添加每种溶剂: 10% DMSO<math>\rightarrow</math> 90% (20% SBE-<math>\beta</math>-CD in saline)</p> <p>Solubility: <math>\geq 2.5</math> mg/mL (5.38 mM); Clear solution</p> <p>此方案可获得 <math>\geq 2.5</math> mg/mL (5.38 mM, 饱和度未知) 的澄清溶液。</p> <p>以 1 mL 工作液为例, 取 100 <math>\mu</math>L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 <math>\mu</math>L 20% 的 SBE-<math>\beta</math>-CD 生理盐水水溶液中, 混合均匀。</p> <p>3.请依序添加每种溶剂: 10% DMSO <math>\rightarrow</math>90% corn oil</p> <p>Solubility: <math>\geq 2.5</math> mg/mL (5.38 mM); Clear solution</p> <p>此方案可获得 <math>\geq 2.5</math> mg/mL (5.38 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。</p> <p>以 1 mL 工作液为例, 取 100 <math>\mu</math>L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 <math>\mu</math>L 玉米油中, 混合均匀。</p>
References	<p>[1]. <a href="#">Yuen E, et al. Evaluation of the effects of an oral notch inhibitor, crenigacestat (LY3039478), on QT interval, and bioavailability studies conducted in healthy subjects. Cancer Chemother Pharmacol. 2019 Mar;83(3):483-492.</a></p> <p>[2]. <a href="#">Mäemets-Allas K, et al. The inhibition of Akt-Pdpk1 interaction efficiently suppresses the growth of murine primary liver tumor cells. Biochem Biophys Res Commun. 2016 May 20;474(1):118-125.</a></p> <p>[3]. <a href="#">Bhagat TD, et al. Notch Pathway Is Activated via Genetic and Epigenetic Alterations and Is a Therapeutic Target in Clear Cell Renal Cancer. J Biol Chem. 2017 Jan 20;292(3):837-846.</a></p> <p>[4]. <a href="#">Mark H. Bender, et al. Abstract 1131: Novel inhibitor of Notch signaling for the treatment of cancer. Experimental and Molecular Therapeutics. 2013.</a></p>

源叶生物