

产品名称: **BQU57**

产品别名: **BQU57**

生物活性:

Description	<p>BQU57 shows selective inhibition for Ral relative to Ras or Rho and inhibit xenograft tumor growth similar to depletion of Ral by siRNA. The IC50 for BQU57 of 2.0 μM in H2122 and 1.3 μM in H358. IC50 value: 2.0 μM (H2122 cell), 1.3 μM (H358 cell) Target: Ral in vitro: BQU57 inhibits Ral binding to its effector RalBP1, Ral-mediated cell spreading in murine fibroblasts and anchorage-independent growth of human cancer cell lines. in vivo: H2122 xenograft tumors are collected 3h after a single intraperitoneal injection BQU57 (10/20/50 mg/kg) and activation of Ral in the extracts is analyzed in RalBP1 pull-down assays. Both RalA and RalB are significantly inhibited by BQU57. By contrast, no inhibition of Ras and RhoA activity is observed.</p>																			
Solvent&Solubility	<p>In Vitro:</p> <p>DMSO : ≥ 100 mg/mL (299.13 mM)</p> <p>* "≥" means soluble, but saturation unknown.</p>																			
	<table><tr><th rowspan="2">Preparing Stock Solutions</th><th>Solvent / Mass Concentration</th><th>1 mg</th><th>5 mg</th><th>10 mg</th></tr><tr><th>1 mM</th><td>2.9913 mL</td><td>14.9566 mL</td><td>29.9133 mL</td></tr><tr><td></td><th>5 mM</th><td>0.5983 mL</td><td>2.9913 mL</td><td>5.9827 mL</td></tr><tr><td></td><th>10 mM</th><td>0.2991 mL</td><td>1.4957 mL</td><td>2.9913 mL</td></tr></table>	Preparing Stock Solutions	Solvent / Mass Concentration	1 mg	5 mg	10 mg	1 mM	2.9913 mL	14.9566 mL	29.9133 mL		5 mM	0.5983 mL	2.9913 mL	5.9827 mL		10 mM	0.2991 mL	1.4957 mL	2.9913 mL
	Preparing Stock Solutions		Solvent / Mass Concentration	1 mg	5 mg	10 mg														
		1 mM	2.9913 mL	14.9566 mL	29.9133 mL															
		5 mM	0.5983 mL	2.9913 mL	5.9827 mL															
	10 mM	0.2991 mL	1.4957 mL	2.9913 mL																
	<p>*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。</p> <p>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。</p> <p>In Vivo:</p> <p>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：</p> <p>——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</p> <p>1.请依序添加每种溶剂： 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline</p> <p>Solubility: ≥ 2.5 mg/mL (7.48 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (7.48 mM，饱和度未知) 的澄清溶液。</p> <p>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。</p>																			
	<p>2.请依序添加每种溶剂： 10% DMSO →90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (7.48 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (7.48 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 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。</p>																			
References	<p>[1]. Yan C, et al. Discovery and characterization of small molecules that target the GTPase Ral. <u>Nature</u>. 2014 Nov 20;515(7527):443-447.</p>																			