



上海源叶生物科技有限公司
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产品名称: **QS11**
产品别名: **QS11**

生物活性:				
Description	QS11 is a GTPase activating protein of ADP-ribosylation factor 1 (ARFGAP1) inhibitor.			
In Vitro	QS11 binds and inhibits the GTPase activating protein of ADP-ribosylation factor 1 (ARFGAP1), suggesting that QS11 modulates Wnt/ β -catenin signaling through an effect on protein trafficking. QS11 (2.5 μ M) activates the Super(8X)TOPFlash reporter 200-fold in the presence of Wnt-3a CM, whereas Wnt-3a treatment alone increases reporter activity 40-fold. QS11 increases reporter activity only 2-fold in the absence of Wnt-3a. QS11 shows potent activity ($EC_{50}=0.5 \mu$ M) with little cytotoxicity toward HEK293 and human primary fibroblast cells. QS11 effectively reduces in vitro migration of metastatic human breast cancer cells[1].			
Solvent&Solubility	In Vitro: DMSO : ≥ 100 mg/mL (176.16 mM) H₂O : < 0.1 mg/mL (insoluble) * " $\geq$ " means soluble, but saturation unknown.			
	Preparing Stock Solutions	Solvent	Mass	
		Concentration	1 mg	5 mg
		1 mM	1.7616 mL	8.8078 mL
		5 mM	0.3523 mL	1.7616 mL
		10 mM	0.1762 mL	0.8808 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: ≥ 2.5 mg/mL (4.40 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (4.40 mM, 饱和度未知) 的澄清溶液。 以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 400 μ L PEG300 中, 混合均匀, 向上述体系中加入 50 μ L Tween-80, 混合均匀; 然后继续加入 450 μ L 生理盐水定容至 1 mL。 2.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: ≥ 2.5 mg/mL (4.40 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (4.40 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。				



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	以 1 mL 工作液为例, 取 100 μ L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μ L 玉米油中, 混合均匀。
References	[1]. Zhang Q, et al. Small-molecule synergist of the Wnt/beta-catenin signaling pathway. Proc Natl Acad Sci U S A. 2007 May 1;104(18):7444-8.
实验参考:	
Cell Assay	ARF-GTP levels are measured by using the GGA binding assay. NIH 3T3 cells are treated with QS11 or QS11-NC at the indicated concentrations for 36 h. Cells are lysed in ARF assay lysis buffer [50 mM Tris-HCl (pH 7.5), 100 mM NaCl, 2 mM MgCl ₂ , 0.1% SDS, 0.5% sodium deoxycholate, 1% Triton X-100, 10% glycerol, and protease inhibitors]. GTP-bound ARF is assayed by its binding to a GST fusion protein, which contains the VHS domain to the GAT region of an ARF effector GGA3[1].
References	[1]. Zhang Q, et al. Small-molecule synergist of the Wnt/beta-catenin signaling pathway. Proc Natl Acad Sci U S A. 2007 May 1;104(18):7444-8.

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