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产品名称：chroman 1
产品别名：Chroman 1

生物活性：

Description	Chroman 1 is a highly potent ROCK2 inhibitor, with an IC50 of 1 nM.
IC_{50} & Target	ROCK2 / MRCK 1 nM (IC_{50}) / 150 nM (IC_{50})
In Vitro	Chroman 1 is a highly potent ROCK2 inhibitor, with an IC50 of < 1 nM. Chroman 1 also shows inhibitory activities against MRCK, with an IC50 of 150 nM, but has no effect on PKA (IC50, > 20000 nM) or AKT1 (IC50, > 20000 nM)[1].

Solvent&Solubility

In Vitro:

DMSO : ≥ 50 mg/mL (114.55 mM)

H_2O : < 0.1 mg/mL (insoluble)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2910 mL	11.4548 mL	22.9095 mL
	5 mM	0.4582 mL	2.2910 mL	4.5819 mL
	10 mM	0.2291 mL	1.1455 mL	2.2910 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 →90% corn oil

Solubility: ≥ 3.25 mg/mL (7.45 mM); Clear solution

此方案可获得 ≥ 3.25 mg/mL (7.45 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 32.5 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。

References	[1]. Yen Ting Chen, et al. Asymmetric synthesis of potent chroman-based Rho kinase (ROCK-II) inhibitors. Med.Chem.Commun., 2011, 2, 73-75.

实验参考：

	Assays are performed using the HTRF KinEASE STK S2 kit. A 5 μL mixture of 1 μM STK2 substrate and 20 μM ATP in STK-buffer is added to the wells. Inhibitor (including Chroman 1, 20 nL) at various

Kinase Assay	concentrations is then dispensed. Reaction is started by addition of 0.5 nM ROCK-II in STK-buffer (5 µL). After 4 h at room temperture (rt), the reaction is stopped by addition of 10 µL mixture of 1× STK antibody-Cryptate in detection buffer and 62.5 nM Sa-XL in detection buffer. After 1 h at rt, the plates are read on the Viewlux in HTRF mode[1].
References	[1]. Yen Ting Chen, et al. Asymmetric synthesis of potent chroman-based Rho kinase (ROCK-II) inhibitors. Med.Chem.Commun., 2011, 2, 73-75.