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产品名称：SU5408
产品别名：VEGFR2 Kinase Inhibitor I

生物活性：

Description	SU5408 (VEGFR2 Kinase Inhibitor I) is a potent and cell-permeable inhibitor of VEGFR2 kinase with an IC_{50} of 70 nM.
IC_{50} & Target	VEGFR2
	70 nM (IC_{50})
In Vitro	3-Substituted indolin-2-ones have been designed and synthesized as a novel class of tyrosine kinase inhibitors which exhibit selectivity toward different receptor tyrosine kinases (RTKs). These compounds have been evaluated for their relative inhibitory properties against a panel of RTKs in intact cells. SU5408 (VEGFR2 Kinase Inhibitor I) is found to be the most potent and selective VEGFR2 inhibitor among the compounds. SU5408 (VEGFR2 Kinase Inhibitor I) shows little or no effect against receptors for platelet-derived growth factor, epidermal growth factor, or insulin-like growth factor (IC_{50}>100 μM)[1].
Solvent&Solubility	***In Vitro:*** **DMSO : 6 mg/mL** (**19.33 mM;** Need ultrasonic and warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2222 mL	16.1108 mL	32.2217 mL
	5 mM	0.6444 mL	3.2222 mL	6.4443 mL
	10 mM	0.3222 mL	1.6111 mL	3.2222 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: 0.77 mg/mL (2.48 mM); Suspended solution; Need ultrasonic

此方案可获得 0.77 mg/mL (2.48 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 7.7 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% corn oil

Solubility: ≥ 0.77 mg/mL (2.48 mM); Clear solution

此方案可获得 ≥ 0.77 mg/mL (2.48 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。

	以 1 mL 工作液为例，取 100 μL 7.7 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中，混合均匀。
References	[1]. Sun L, et al. Synthesis and biological evaluations of 3-substituted indolin-2-ones: a novel class of tyrosine kinase inhibitors that exhibit selectivity towardparticular receptor tyrosine kinases. J Med Chem. 1998 Jul 2;41(14):2588-603.