



上海源叶生物科技有限公司
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产品名称: **MIR96-IN-1**
产品别名: **MIR96-IN-1**

生物活性:

Description

MIR96-IN-1 selectively inhibits biogenesis of microRNA-96, upregulating a protein target (FOXO1) and inducing apoptosis in cancer cells. Target: microRNA-96 in vitro: MIR96-IN-1 inhibits biogenesis of its target precursor miRNA to varying extents : MIR96-IN-1 reduces the expression level of miR-96 by 90% at 40 μ M. MIR96-IN-1 efficiently and selectively silences production of miR-96 at 40 μ M while not affecting miR-182 or -183. Moreover, MIR96-IN-1 inhibits Drosha cleavage of pri-miR-96, as evidenced by an increase in the levels of pri-miR-96 and a reduction in levels of pre- and mature miR-96 in treated cells, as expected if MIR96-IN-1 binds to the Drosha site. [1]

In Vitro:

DMSO : ≥ 100 mg/mL (169.84 mM)

H₂O : < 0.1 mg/mL (insoluble)

* " $\geq$ " means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing	1 mM		1.6984 mL	8.4920 mL	16.9840 mL
Stock Solutions	5 mM		0.3397 mL	1.6984 mL	3.3968 mL
	10 mM		0.1698 mL	0.8492 mL	1.6984 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 (4.25 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (4.25 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 (4.25 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (4.25 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 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。



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References	[1]. Velagapudi SP, et al. Sequence-based design of bioactive small molecules that target precursor microRNAs. Nat Chem Biol. 2014 Apr;10(4):291-7. [2]. Haga CL, et al. Small Molecule Inhibition of miR-544 Biogenesis Disrupts Adaptive Responses to Hypoxia by Modulating ATM-mTOR Signaling. ACS Chem Biol. 2015 Oct 16;10(10):2267-76. [3]. Velagapudi SP, et al. Defining the RNA internal loops preferred by benzimidazole derivatives via 2D combinatorial screening and computational analysis. J Am Chem Soc. 2011 Jul 6;133(26):10111-8.



源叶生物