



上海源叶生物科技有限公司
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产品名称: **MN-64**
产品别名: **MN-64**

生物活性:				
Description	MN-64 is a potent tankyrase 1 inhibitor, with IC ₅₀ s of 6 nM, 72 nM, 19.1 μM, and 39.4 μM for TNKS1, TNKS2, ARTD1 and ARTD2, respectively.			
IC ₅₀ & Target	TNKS1	TNKS2	ARTD1	ARTD2
	6 nM (IC ₅₀)	72 nM (IC ₅₀)	19.1 μM (IC ₅₀)	39.4 μM (IC ₅₀)
In Vitro	MN-64 is a potent tankyrase 1 inhibitor, with IC ₅₀ s of 6 nM, 72 nM, 19.1 μM, 39.4 μM for TNKS1, TNKS2, ARTD1 and ARTD2, respectively. MN-64 effectively inhibits Wnt/β-catenin at 1 μM, and blocks STF luciferase activity at 200 nM[1].			
Solvent&Solubility	In Vitro: DMSO : 100 mg/mL (378.33 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg
		1 mM	3.7833 mL	18.9165 mL
		5 mM	0.7567 mL	3.7833 mL
		10 mM	0.3783 mL	1.8916 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℃, 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。 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 (9.46 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (9.46 mM, 饱和度未知) 的澄清溶液。 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。 2.请依序添加每种溶剂: 10% DMSO→ 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.46 mM); Clear solution 此方案可获得 ≥ 2.5 mg/mL (9.46 mM, 饱和度未知) 的澄清溶液。 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 20% 的 SBE-β-CD 生理盐水水溶液中, 混合均匀。 3.请依序添加每种溶剂: 10% DMSO →90% corn oil			



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	<p>Solubility: ≥ 2.5 mg/mL (9.46 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (9.46 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	[1]. Narwal M, et al. Discovery of tankyrase inhibiting flavones with increased potency and isoenzyme selectivity. J Med Chem. 2013 Oct 24;56(20):7880-9.
实验参考:	
Kinase Assay	<p>Inhibitory potency of compounds on Tankyrase-1 enzymatic activity is evaluated using a Scintillation Proximity Assay (SPA). The assay is designed to measure compound inhibition of Tankyrase-1 autoPARsylation (Tankyrase-1 is both enzyme and substrate in this assay). Truncated recombinant human Tankyrase-1 protein (amino acids E1023-T1327) is purified from SF9 cells. The assay is conducted using 0.11 μM of Tankyrase-1 protein and 3 μM nicotinamide adenine dinucleotide (NAD⁺, 2.12 μM ³H-NAD⁺ with a specific radioactivity of 1690 Ci/mol, 0.88 μM biotin- NAD⁺), in pH 7.5 Tris buffer (60 mM Tris, 1 mM DTT, 0.01% (v/v) Tween-20®, 2.5 mM MgCl₂, 0.3 mg/mL BSA). For IC₅₀ determination, 10 mM DMSO stock solution of a compound (MN-64) is sequentially diluted by two-fold in DMSO, and aliquots of the diluted solutions are transferred to 384-well assay plates and mixed with Tankyrase-1 solution[1].</p>
References	[1]. Narwal M, et al. Discovery of tankyrase inhibiting flavones with increased potency and isoenzyme selectivity. J Med Chem. 2013 Oct 24;56(20):7880-9.

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