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产品名称：5-methoxy-3-(1,2,3,6-tetrahydropyridin-4-yl)-1H-indole
产品别名：RU 24969

生物活性：

Description	RU 24969 is a selective agonist at the 5-HT_{1A} and 5-HT_{1B} receptors.
IC_{50} & Target	5-HT_{1A}, 5-HT_{1B}[1]
In Vivo	RU 24969 (0.03-3.0 mg/kg; s.c.; 15 minutes) dose-dependently decreases water consumption in water deprived rats[3].

Animal Model:	Male Sprague-Dawley rats (water bottles were removed for 23.75 hours) [3]
Dosage:	0.03, 0.3, 1, 3 mg/kg
Administration:	Subcutaneous injection; 15 minutes
Result:	Dose-dependently decreased water consumption.

Solvent&Solubility

In Vitro:

DMSO : ≥ 30 mg/mL (131.41 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.3804 mL	21.9020 mL	43.8039 mL
	5 mM	0.8761 mL	4.3804 mL	8.7608 mL
	10 mM	0.4380 mL	2.1902 mL	4.3804 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 (10.95 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (10.95 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 (10.95 mM); Clear solution

此方案可获得 ≥ 2.5 mg/mL (10.95 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。

References	[1]. Doods HN, et al. Differential selectivities of RU 24969 and 8-OH-DPAT for the purported 5-HT1A and 5-HT1B binding sites. Correlation between 5-HT1A affinity and hypotensive activity. Eur J Pharmacol. 1985 Jun 19;112(3):363-70. [2]. Green AR, et al. The behavioural effects of RU 24969, a suggested 5-HT1 receptor agonist in rodents and the effect on the behaviour of treatment with antidepressants. Neuropharmacology. 1984 Jun;23(6):655-61. [3]. Aronsen D, et al. RU 24969-produced adipsia and hyperlocomotion: Differential role of 5HT1A and 5HT1B receptor mechanisms. Pharmacol Biochem Behav. 2014 May 15;124C:1-4. [4]. Cheetham SC, et al. Evidence that RU 24969-induced locomotor activity in C57/B1/6 mice is specifically mediated by the 5-HT1B receptor. Br J Pharmacol. 1993 Dec;110(4):1621-9.