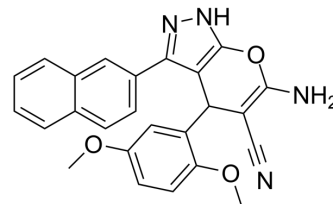


RBC8

Cat. No.:	HY-12873		
CAS No.:	361185-42-4		
Molecular Formula:	C ₂₅ H ₂₀ N ₄ O ₃		
Molecular Weight:	424.45		
Target:	Ras		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 40 mg/mL (94.24 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3560 mL	11.7800 mL	23.5599 mL
	5 mM	0.4712 mL	2.3560 mL	4.7120 mL
	10 mM	0.2356 mL	1.1780 mL	2.3560 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (5.89 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: 2.5 mg/mL (5.89 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (5.89 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

RBC8 is a novel small molecule inhibitor of Ral GTPase; has IC₅₀ of 3.5 μM in H2122 cell and 3.4 μM in H358 cell. IC₅₀ value: Target: Ral GTPase inhibitor RBC8 or BQU57 treatment showed no further inhibition of colony formation after Ral knockdown. RBC8 and BQU57 showed favorable properties that define good drug candidates. To test the effect of Ral inhibitors on xenograft tumor growth, nude mice were inoculated subcutaneously with H2122 human lung cancer cells and treated intraperitoneally with 50 mg/kg/d of RBC8 for 21 days (except weekends). RBC8 inhibited tumor growth to a similar extent as dual knockdown of RalA and RalB.

REFERENCES

[1]. Yan C, et al. Discovery and characterization of small molecules that target the GTPase Ral. Nature. 2014 Nov 20;515(7527):443-7.

Caution: Product has not been fully validated for medical applications. For research use only.

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