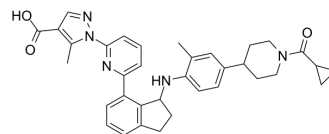


(Rac)-MGV354

Cat. No.:	HY-117917
CAS No.:	1852495-86-3
Molecular Formula:	C ₃₅ H ₃₇ N ₅ O ₃
Molecular Weight:	575.7
Target:	Guanylate Cyclase
Pathway:	GPCR/G Protein
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (173.70 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.7370 mL	8.6851 mL	17.3702 mL
		5 mM		0.3474 mL	1.7370 mL	3.4740 mL
		10 mM		0.1737 mL	0.8685 mL	1.7370 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.34 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.34 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.34 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	(Rac)-MGV354 is the racemate of MGV354. MGV354 is a soluble guanylate cyclase (sGC) activator with EC ₅₀ s of <0.5 nM, and 5 nM in CHO and GTM-3 E cells, respectively ^[1] .
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REFERENCES

[1]. Ehara T, et al. The Discovery of (S)-1-(6-(3-((4-(1-(Cyclopropanecarbonyl)piperidin-4-yl)-2-methylphenyl)amino)-2,3-dihydro-1H-inden-4-yl)pyridin-2-yl)-5-methyl-1H-pyrazole-4-carboxylic Acid, a Soluble Guanylate Cyclase Activator Specifically Designed for Topical Ocular Delivery as a Therapy for Glaucoma. J Med Chem. 2018 Mar

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

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