

(Rac)-MGV354

Chemical Properties

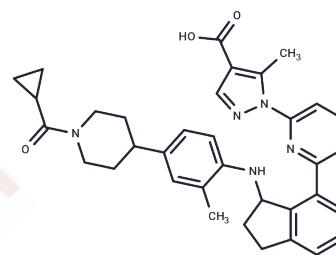
CAS No. : 1852495-86-3

Formula: C₃₅H₃₇N₅O₃

Molecular Weight: 575.7

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	(Rac)-MGV354 (MGV354) is the racemate of MGV354. MGV354 is a soluble activator of guanylate cyclase (sGC)(EC50s of <0.5 nM, and 5 nM in CHO and GTM-3 E cells, respectively).
Targets(IC50)	Others, Guanylate cyclase

Solubility Information

Solubility	DMSO: 60 mg/mL (104.22 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.47 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.737 mL	8.6851 mL	17.3702 mL
5 mM	0.3474 mL	1.737 mL	3.474 mL
10 mM	0.1737 mL	0.8685 mL	1.737 mL
50 mM	0.0347 mL	0.1737 mL	0.3474 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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 22;61(6):2552-2570.

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