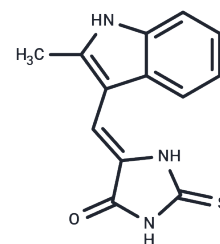


PKG drug G1

Chemical Properties

CAS No. : 374703-78-3
 Formula: C₁₃H₁₁N₃O₂
 Molecular Weight: 257.31
 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	PKG drug G1 targets PKG I α C42. PKG drug G1 can couple to vasodilation and blood pressure lowering by a C42 PKG I α -independent mechanism.
Targets(IC50)	PKA
In vivo	The absorption rate following oral administration is 80% in rats and >90% in dogs and monkeys. The metabolism of Asimadoline is rapid and appears similar in animals and man. Asimadoline has peripheral anti-inflammatory actions that are partly mediated through increase in joint fluid substance P levels
Animal Research	Mice constitutively expressing PKG I α Cys42Ser are generated on a pure C57BL/6 background. Age-matched and. body weight-matched WT or PKG I α Cys42Ser KI male mice are used in all studies. Blood pressure and heart rate are. assessed by radio telemetry in conscious freely moving mice. Alzet osmotic mini-pumps are used to deliver. angiotensin II at 1.1 mg/kg per day in some studies. PKG drug G1 is delivered intraperitoneally (3.7-14.8 mg/kg) or. orally (20 mg/kg) in some studies. To deliver PKG drug G1 orally, without stress or risk of dislodging the telemetric. probe catheter, it is provided suspended in water and set in gelatin flavored with sodium saccharin.

Solubility Information

Solubility	DMSO: 16.67 mg/mL (64.79 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8864 mL	19.4318 mL	38.8636 mL
5 mM	0.7773 mL	3.8864 mL	7.7727 mL
10 mM	0.3886 mL	1.9432 mL	3.8864 mL
50 mM	0.0777 mL	0.3886 mL	0.7773 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

Burgoyne JR, et al. Proof of Principle for a Novel Class of Antihypertensives That Target the Oxidative Activation of PKG α (Protein Kinase G α). Hypertension. 2017 Sep;70(3):577-586.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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