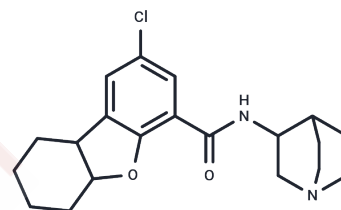


RG-12915

Chemical Properties

CAS No. : 136174-04-4
 Formula: C₂₀H₂₅ClN₂O₂
 Molecular Weight: 360.88
 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	RG-12915 is a selective antagonist of 5-HT ₃ (IC ₅₀ value of 0.16 nM).
Targets(IC ₅₀)	5-HT Receptor
In vitro	RG 12915 is a displacer of binding of 5-hydroxytryptamine (5-HT ₃) binding sites with IC ₅₀ value of 0.16 nM, whereas failing to displace binding of ligands for the alpha-1, alpha-2 and beta adrenergic, 5-HT ₁ or 5-HT ₂ or cholinergic-muscarinic sites (IC ₅₀ values less than 1 μM).
In vivo	RG 12915 (1 mg/kg, p.o.) is highly protective against cisplatin-induced emesis in the dog. RG 12915 has no significant gastroprokinetic activity in the same species. RG 12915 has a lower ED ₅₀ value for attenuating cisplatin-induced emetic episodes in the ferret [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.771 mL	13.855 mL	27.710 mL
5 mM	0.5542 mL	2.771 mL	5.542 mL
10 mM	0.2771 mL	1.3855 mL	2.771 mL
50 mM	0.0554 mL	0.2771 mL	0.5542 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

Fitzpatrick LR, et al. RG 12915: a potent 5-hydroxytryptamine-3 antagonist that is an orally effective inhibitor of cytotoxic drug-induced emesis in the ferret and dog. J Pharmacol Exp Ther. 1990 Aug;254(2):450-5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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