
Product Data Sheet

Product Name: RG-12915

Cat. No.: GC34158

Chemical Properties

Cas. No. 136174-04-4

SMILES O=C(C1=C2OC(CCCC3)C3C2=CC(Cl)=C1)NC4CN5CCC4CC5Formula $C_{20}H_{25}ClN_2O_2$ M.Wt 360.88

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

RG-12915 is a selective 5-HT₃ antagonist, with IC₅₀ value of 0.16 nM.

RG 12915 is a potent and selective displacer of binding of 5-hydroxytryptamine (5-HT₃) binding sites (IC₅₀ value = 0.16 nM), whereas failing to displace binding of ligands for the alpha-1, alpha-2 and beta adrenergic, 5-HT₁ or 5-HT₂ or cholinergic-muscarinic sites with IC₅₀ values less than 1 μM.

RG 12915 has a lower ED₅₀ value (0.004 mg/kg) for attenuating cisplatin-induced emetic episodes in the ferret. 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[1].

[1]. 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.

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

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