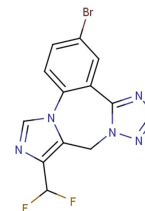


RO 4938581

Chemical Properties

CAS No.:	883093-10-5
Formula:	C ₁₃ H ₈ BrF ₂ N ₅
Molecular Weight:	352.14
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	RO 4938581 is an effective and selective agonist of GABAA α 5 inverse (K _i : 4.6 nM for GABAA α 5 β 3 γ 2a, and shows a lower affinity at α 1 β 3 γ 2a, α 2 β 3 γ 2a, α 3 β 3 γ 2a (K _i , 174, 185, 80 nM, respectively)).
Targets(IC ₅₀)	GABAA α 5 β 3 γ 2a: (k _i)4.6 nM GABAA α 1 β 3 γ 2a: 174 nM(k _i) GABAA α 2 β 3 γ 2a: 185 nM(k _i) GABAA α 3 β 3 γ 2a: 80 nM
In vivo	RO 4938581 (0.3-1 mg/kg, p.o.) reverses a working memory impairment induced by scopolamine the delayed match to position task [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.84 mL	14.199 mL	28.398 mL
5 mM	0.568 mL	2.84 mL	5.68 mL
10 mM	0.284 mL	1.42 mL	2.84 mL
50 mM	0.057 mL	0.284 mL	0.568 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Knust H, et al. The discovery and unique pharmacological profile of RO4938581 and RO4882224 as potent and selective GABAA α 5 inverse agonists for the treatment of cognitive dysfunction. Bioorg Med Chem Lett. 2009 Oct 15;19(20):5940-4.

Inhibitors · Natural Compounds · Compound Libraries

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