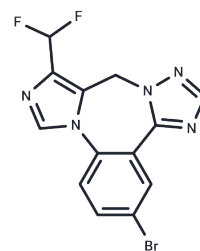


RO 4938581

## Chemical Properties

CAS No. : 883093-10-5  
 Formula: C<sub>13</sub>H<sub>8</sub>BrF<sub>2</sub>N<sub>5</sub>  
 Molecular Weight: 352.14  
 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	RO 4938581 is an effective and selective agonist of GABAA $\alpha$ 5 inverse (K <sub>i</sub> : 4.6 nM for GABAA $\alpha$ 5 $\beta$ 3 $\gamma$ 2a, and shows a lower affinity at $\alpha$ 1 $\beta$ 3 $\gamma$ 2a, $\alpha$ 2 $\beta$ 3 $\gamma$ 2a, $\alpha$ 3 $\beta$ 3 $\gamma$ 2a (K <sub>i</sub> , 174, 185, 80 nM, respectively)).
Targets(IC50)	GABA Receptor
In vivo	RO 4938581 (0.3-1 mg/kg, p.o.) reverses scopolamine-induced working memory impairment in the delayed match-to-position task [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8398 mL	14.1989 mL	28.3978 mL
5 mM	0.568 mL	2.8398 mL	5.6796 mL
10 mM	0.284 mL	1.4199 mL	2.8398 mL
50 mM	0.0568 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. 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

Knust H, et al. The discovery and unique pharmacological profile of RO4938581 and RO4882224 as potent and selective GABAA alpha5 inverse agonists for the treatment of cognitive dysfunction. *Bioorg Med Chem Lett.* 2009 Oct 15;19(20):5940-4.

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