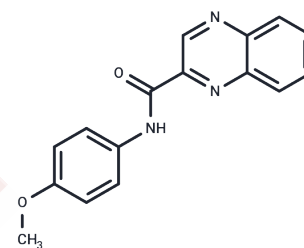


5-HT3 antagonist 5

Chemical Properties

CAS No. :	901599-43-7
Formula:	C16H13N3O2
Molecular Weight:	279.29
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	5-HT3 antagonist 5 is a quinoxalin-2-carboxamide compound that acts as a 5-HT3 receptor antagonist, counteracting 5-HT3 agonist and 2-methyl-5-HT, and demonstrating an anti-depressant effect in mice [1].
Targets(IC50)	Others,5-HT Receptor
In vitro	Compound 4c, a 5-HT3 antagonist, demonstrates effective antagonism against the 5-HT3 receptor in the longitudinal muscle myenteric plexus of the guinea pig ileum. This activity is observed when challenged with the 5-HT3 agonist, 2-methyl-5-HT, manifesting a pA2 value of 5 [1].
In vivo	Compound 4c, a 5-HT3 antagonist administered at 1 mg/kg intraperitoneally as a single dose, effectively reduced immobility duration, demonstrating an antidepressant effect in Forced Swim Test (FST) mice [1]. This experiment utilized Swiss albino mice weighing 23 ± 2 g [1]. Despite its significant effect on immobility, compound 4c did not alter the spontaneous locomotor activity in these animals, indicating its specificity in exhibiting the antidepressant effect without affecting general locomotion.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5805 mL	17.9025 mL	35.8051 mL
5 mM	0.7161 mL	3.5805 mL	7.161 mL
10 mM	0.3581 mL	1.7903 mL	3.5805 mL
50 mM	0.0716 mL	0.3581 mL	0.7161 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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