

Repinotan

Chemical Properties

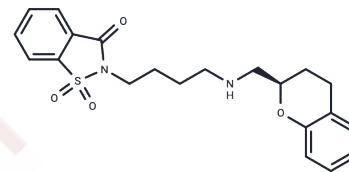
CAS No. : 144980-29-0

Formula: C₂₁H₂₄N₂O₄S

Molecular Weight: 400.49

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Repinotan (BAY x 3702 free base) is an orally active, selective 5-HT _{1A} receptor agonist that crosses the blood-brain barrier (BBB), exhibits neuroprotective activity, counteracts morphine-induced depression of ventilation in anesthetized rats, and may be used in studies of acute ischemic stroke and traumatic brain injury.
Targets(IC ₅₀)	5-HT Receptor
In vitro	Repinotan affects the anti-apoptotic protein Bcl-2, serotonergic neurotransmitter glial growth factor S-100beta, nerve growth factor, and inhibits caspase-3 activity via MAPK and PKCα pathways [1].
In vivo	Repinotan (1-100 μg/kg) induces a strong, dose-dependent reduction in infarct size in permanent and transient middle cerebral artery occlusion, as well as in traumatic brain injury paradigms[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4969 mL	12.4847 mL	24.9694 mL
5 mM	0.4994 mL	2.4969 mL	4.9939 mL
10 mM	0.2497 mL	1.2485 mL	2.4969 mL
50 mM	0.0499 mL	0.2497 mL	0.4994 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

A C Berends, et al. A review of the neuroprotective properties of the 5-HT1A receptor agonist repinotan HCl (BAYx3702) in ischemic stroke. CNS Drug Rev. Winter 2005;11(4):379-402.

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