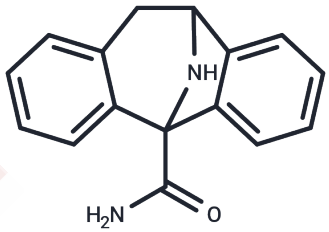
Data Sheet (Cat.No.T26564)

TargetMol

ADCI

Chemical Properties



CAS No. : 124070-15-1

Formula: C16H14N2O

Molecular Weight: 250.3

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	ADCI is an inhibitor of voltage-activated sodium channels and N-methyl-D-aspartate (NMDA)-receptor-gated channels. Inhibition of sodium channels by ADCI was voltage dependent. High doses of ADCI increased dopamine metabolism in the prefrontal cortex and/or in the nucleus accumbens, but not in the dorsal striatum.
Targets(IC50)	Others,iGluR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9952 mL	19.976 mL	39.9521 mL
5 mM	0.799 mL	3.9952 mL	7.9904 mL
10 mM	0.3995 mL	1.9976 mL	3.9952 mL
50 mM	0.0799 mL	0.3995 mL	0.799 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

Sun L, Lin SS. The anticonvulsant SGB-017 (ADCI) blocks voltage-gated sodium channels in rat and human neurons: comparison with carbamazepine. Epilepsia. 2000 Mar;41(3):263-70. PubMed PMID: 10714396.
Geter-Douglass B, Witkin JM. Behavioral effects and anticonvulsant efficacies of low-affinity, uncompetitive NMDA antagonists in mice. Psychopharmacology (Berl). 1999 Oct;146(3):280-9. PubMed PMID: 10541728.
Bubser M, Zadow B, Kronthaler UO, Felsheim U, Rückert NG, Schmidt WJ. Behavioural pharmacology of the non-competitive NMDA antagonists dextrorphan and ADCI: relations between locomotor stimulation, anticataleptic potential and forebrain dopamine metabolism. Naunyn Schmiedebergs Arch Pharmacol. 1997 Jun;355(6):767-73. PubMed PMID: 9205962.
Grant KA, Colombo G, Grant J, Rogawski MA. Dizocilpine-like discriminative stimulus effects of low-affinity uncompetitive NMDA antagonists. Neuropharmacology. 1996;35(12):1709-19. PubMed PMID: 9076750.

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