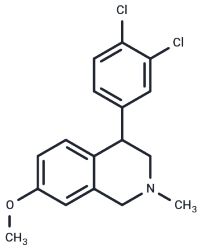
Data Sheet (Cat.No.T7341)

TargetMol

Diclofensine

Chemical Properties



CAS No. : 67165-56-4

Formula: C17H17Cl2NO

Molecular Weight: 322.23

Storage: Keep away from direct sunlight,Store at low temperature
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	Diclofensine (Ro 8-4650) is a monoamine reuptake inhibitor that blocks dopamine (IC50=0.74 nM), norepinephrine (IC50=2.3 nM), and 5-hydroxytryptophan (IC50=3.7 nM) in synaptosomes of the rat brain. dAURK-4 hydrochloride is an inhibitor of dopamine (IC50=0.74 nM), norepinephrine (IC50=2.3 nM) and 5-hydroxytryptophan (IC50=3.7 nM).
Targets(IC50)	5-HT Receptor,Dopamine Receptor,Monoamine Transporter
In vivo	A controlled trial with diclofensine, a new psychoactive drug, in the treatment of depression[1].
Animal Research	In a controlled study, out-patients suffering from moderate to severe depression were treated with the objective of assessing the new drug's therapeutically effective dose range. Maprotiline was used as a reference drug: fourteen patients were assigned to receive diclofensine and thirteen to receive maprotiline in a double-blind design. Depending on tolerance and efficacy, they were treated for periods ranging from 5 to 150 days. Doses were titrated to the optimum[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1034 mL	15.5169 mL	31.0337 mL
5 mM	0.6207 mL	3.1034 mL	6.2067 mL
10 mM	0.3103 mL	1.5517 mL	3.1034 mL
50 mM	0.0621 mL	0.3103 mL	0.6207 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

Hyttel J, et al. Neurochemical profile of Lu 19-005, a potent inhibitor of uptake of dopamine, noradrenaline, and serotonin. J Neurochem. 1985 May;44(5):1615-22.
Gasic S, et al. Effect of diclofensine, a novel antidepressant, on peripheral adrenergic function. Clin Pharmacol Ther. 1986 May;39(5):582-5.
Di Renzo G, et al. Pure uptake blockers of dopamine can reduce prolactin secretion: studies with diclofensine. Life Sci. 1988;42(21):2161-9.