
Product Data Sheet

Product Name: Diclofenine (Ro 8-4650)

Cat. No.: GC33711

Chemical Properties

Cas. No. 67165-56-4

SMILES CN1CC2=C(C=CC(OC)=C2)C(C3=CC=C(C(Cl)C(Cl)=C3)C1Formula $C_{17}H_{17}Cl_2NO$ M.Wt 322.23

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Diclofenine(Ro-8-4650) is a potent inhibitor of monoamine reuptake, blocking the uptake of dopamine, noradrenaline, and serotonin by rat brain synaptosomes with IC₅₀ values of 0.74, 2.3, and 3.7 nM, respectively. IC₅₀ value: Target: Dopamine reuptake inhibitor The action of diclofenine on peripheral neuronal adrenergic function was studied through tests of the blood pressure response to NE, tyramine, and phenylephrine (PE). The blood pressure response to NE was enhanced and that to tyramine was decreased by diclofenine, as a result of its inhibitive action on peripheral neuronal amine uptake [2]. Diclofenine, in concentrations of 0.01, 0.1 and 1 microM caused a marked decrease of 3H-DA uptake. In addition, it was unable to stimulate basal endogenous DA release which, on the contrary, was elicited by d-amphetamine in the same concentration (50 microM). On the other hand, diclofenine (50 microM) caused a 3 fold enhancement of K⁺-evoked DA release [3].

[1]. 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. [2]. Gasic S, et al. Effect of diclofenine, a novel antidepressant, on peripheral adrenergic function. Clin Pharmacol Ther. 1986 May;39(5):582-5. [3]. Di Renzo G, et al. Pure uptake

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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blockers of dopamine can reduce prolactin secretion: studies with diclofenine. Life Sci. 1988;42(21):2161-9.

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