Diclofensine

Cat. No.:	HY-18610A	0
CAS No.:	67165-56-4	
Molecular Formula:	C ₁₇ H ₁₇ Cl ₂ NO	
Molecular Weight:	322.23	
Target:	Dopamine Transporter	
Pathway:	Neuronal Signaling	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

Product Data Sheet

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BIOLOGICAL ACTIVITY

Description	Diclofensine(Ro-8-4650) is a potent inhibitor of monoamine reuptake, blocking the uptake of dopamine, noradrena	
	serotonin by rat brain synaptosomes with IC50 values of 0.74, 2.3, and 3.7 nM, respectively.IC50 value: Target: Dopamine	
	reuptake inhibitorThe action of diclofensine 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 diclofensine, as a result of its inhibitive action on peripheral neuronal amine uptake [2].	
	Diclofensine, 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, diclofensine (50 microM) caused a 3 fold enhancement of K+-evoked DA	
	release [3].	

REFERENCES

[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 diclofensine, a novel antidepressant, on peripheral adrenergic function. Clin Pharmacol Ther. 1986 May;39(5):582-5.

[3]. Di Renzo G, et al. Pure uptake blockers of dopamine can reduce prolactin secretion: studies with diclofensine. Life Sci. 1988;42(21):2161-9.

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

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