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产品名称：4-(3,4-二氯苯)-7-甲氧基-2-甲基-1,2,3,4-四氢异喹啉盐酸盐
产品别名：双氮奋兴盐酸盐；Diclofensine hydrochloride；Ro 8-4650 hydrochloride

生物活性：

Description

Diclofensine hydrochloride (Ro-8-4650 hydrochloride) 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 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].

Solvent&Solubility

In Vitro:

H_2O : ≥ 52 mg/mL (144.97 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.7879 mL	13.9396 mL	27.8792 mL
	5 mM	0.5576 mL	2.7879 mL	5.5758 mL
	10 mM	0.2788 mL	1.3940 mL	2.7879 mL

*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。

储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。

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.