Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Diclofensine (hydrochloride)

Catalog No: tcsc3484

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
34041-84-4

Formula:
$C_{17}H_{18}Cl_3NO$

Pathway:
Neuronal Signaling

Target:
Dopamine Transporter

Purity / Grade:
>98%

Solubility:
H2O : ≥ 52 mg/mL (144.97 mM)

Alternative Names:
Ro 8-4650 hydrochloride

Observed Molecular Weight:
358.69

Product Description

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Diclofensine(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 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].