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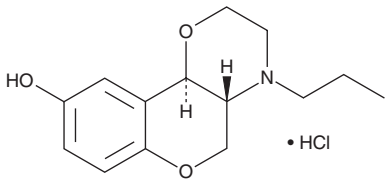
PRODUCT INFORMATION

(+)-PD 128907 (hydrochloride)

Item No. 21235

CAS Registry No.: 300576-59-4
Formal Name: 3,4,4aR,10bR-tetrahydro-4-propyl-2H,5H-[1]benzopyrano[4,3-b]-1,4-oxazin-9-ol, monohydrochloride
MF: $C_{14}H_{19}NO_3 \bullet HCl$
FW: 285.8
Purity: ≥98%
UV/Vis.: λ_{max}: 228, 297 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

(+)-PD 128907 (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the (+)-PD 128907 (hydrochloride) in the solvent of choice. (+)-PD 128907 (hydrochloride) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of (+)-PD 128907 (hydrochloride) in these solvents is approximately 15 and 10 mg/ml, respectively. (+)-PD 128907 (hydrochloride) is slightly soluble in ethanol.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of (+)-PD 128907 (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of (+)-PD 128907 (hydrochloride) in PBS, pH 7.2, is approximately 0.5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

(+)-PD 128907 is a potent agonist of the dopamine 3 (D_3) receptor (K_i = 1 nM).[1,2] It shows selectivity for D_3 over D_2 and D_4 receptors (K_is = 1.2 and 7 µM, respectively).[1] Low doses of (+)-PD 128907 (13 µg/kg, s.c.) reduce spontaneous locomotor activity in rats.[3] It blocks stereotypy induced by the NMDA receptor antagonist (+)-MK-801 (Item No. 10009019) in mice.[4] (+)-PD 128907 is used in animal models to study the role of the D_3 receptor in nervous system disorders, such as schizophrenia, Parkinson's disease, and depression.[5,6]

References

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5. Carcinella, S., Drui, G., Boulet, S., *et al. Transl. Psychiatry* **4(e401)** (2014).
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