

Product Name: (+)-PD 128907 hydrochloride

Catalog No.: 1243

Batch No.: 5

CAS Number: 300576-59-4

IUPAC Name: (4a*R*,10b*R*)-3,4a,4,10b-Tetrahydro-4-propyl-2*H*,5*H*-[1]benzopyrano-[4,3-*b*]-1,4-oxazin-9-ol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₉NO₃.HCl

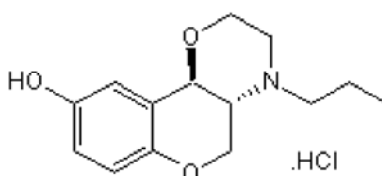
Batch Molecular Weight: 285.77

Physical Appearance: White solid

Solubility: water to 10 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

Chiral HPLC: Shows 98.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +75.8 (Concentration = 1, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.84	7.05	4.9
Found	58.8	7.13	4.87

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

High affinity D₃ dopamine receptor agonist (K_i = 2.3 nM). Displays 18 - 200-fold selectivity over other dopamine receptor subtypes.

Physical and Chemical Properties:

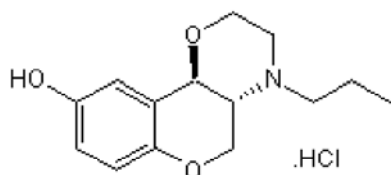
Batch Molecular Formula: C₁₄H₁₉NO₃.HCl

Batch Molecular Weight: 285.77

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Witkin *et al* (1998) Atypical antipsychotic-like effects of the DA D₃ receptor agonist (+)-PD 128907. *Eur.J.Pharmacol.* **347** R1. PMID: 9741997.

Bristow *et al* (1996) The behavioural and neurochemical profile of the putative DA D₃ receptor agonist, (+)-PD 128907, in the rat. *Neuropharmacology* **35** 285. PMID: 8783203.

Pugsley *et al* (1995) Neurochemical and functional characterization of the preferentially selective DA D₃ agonist PD 128907. *J.Pharmacol.Exp.Ther.* **275** 1355. PMID: 8531103.

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