Product Name: (+)-PD 128907 hydrochloride
Catalog No.: 1243
Batch No.: 4
CAS Number: 300576-59-4
IUPAC Name: (4aR,10bR)-3,4a,4,10b-Tetrahydro-4-propyl-2H,5H-[1]benzopyrano-[4,3-b]-1,4-oxazin-9-ol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{14\text{H}_{19}\text{NO}_3\cdot\text{HCl} \cdot \frac{1}{2}\text{H}_2\text{O}} \)
Batch Molecular Weight: 290.27
Physical Appearance: White solid
Solubility: water to 10 mM
Storage: Store at +4°C

2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
Chiral HPLC: Shows 99.8% purity
\(^1\text{H NMR:}\) Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: \([\alpha]_D = +84.1\) (Concentration = 1.07, Solvent = Water)
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>C (%)</th>
<th>H (%)</th>
<th>N (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>57.93</td>
<td>7.12</td>
<td>4.83</td>
</tr>
<tr>
<td>Found</td>
<td>58.3</td>
<td>7.14</td>
<td>4.82</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
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Description:  
High affinity D₃ dopamine receptor agonist (Kᵢ = 2.3 nM). Displays 18 - 200-fold selectivity over other dopamine receptor subtypes.

Physical and Chemical Properties:  
Batch Molecular Formula: C₁₄H₁₈NO₃.HCl.½H₂O  
Batch Molecular Weight: 290.27  
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:  