Product Name: Pirbedil dihydrochloride  
Catalog No.: 1031  
Batch No.: 4

CAS Number: 1451048-94-4
IUPAC Name: 2-[4-(1,3-Benzodioxol-5-ylmethyl)-1-piperazinyl]pyrimidine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{16}\text{H}_{18}\text{N}_{4}\text{O}_{2}.2\text{HCl}$
Batch Molecular Weight: 371.27
Physical Appearance: White solid
Solubility: water to 25 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: $R_f = 0.2$ (Ethyl acetate:Petroleum ether [3:7])
HPLC: Shows 100% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
<th>Chlorine</th>
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<td>5.46</td>
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</tbody>
</table>
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CAS Number: 1451048-94-4

IUPAC Name: 2-[4-(1,3-Benzodioxol-5-ylmethyl)-1-piperazinyl]pyrimidine dihydrochloride

Description:
A direct dopamine agonist, in clinical use for treatment of dopaminergic system dysfunction. Recent work suggests that it is selective for the \(D_3\) subtype, for which it has 20 times higher affinity than for \(D_2\), and possesses no significant affinity for \(D_1\) receptors.

Physical and Chemical Properties:
Batch Molecular Formula: \(C_{10}H_{12}N_2O_2\cdot 2\text{HCl}\)
Batch Molecular Weight: 371.27
Physical Appearance: White solid

Minimum Purity: >99%

Storage: Store at RT

Solubility & Usage Info:
water to 25 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 \(-20^\circ\text{C}\) or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:
Merck Index 12 7648.

