1. PHYSICAL AND CHEMICAL PROPERTIES

   Batch Molecular Formula: \( \text{C}_{18}\text{H}_{18}\text{Cl}_{2}\text{N}_{2}\text{O}_{3} \)
   Batch Molecular Weight: 381.25
   Physical Appearance: White solid
   Solubility: DMSO to 100 mM, ethanol to 20 mM
   Storage: Store at RT
   Batch Molecular Structure:

   ![molecular structure image]

2. ANALYTICAL DATA

   HPLC: Shows 100% purity
   \(^1\text{H NMR}:\) Consistent with structure
   Mass Spectrum: Consistent with structure
   Microanalysis:

<table>
<thead>
<tr>
<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
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<tr>
<td>H</td>
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</tr>
<tr>
<td>N</td>
<td>7.35</td>
<td>7.33</td>
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Product Name: Piclamilast
Catalog No.: 4525
Batch No.: 1

CAS Number: 144035-83-6
IUPAC Name: 3-(Cyclopentyloxy)-N-(3,5-dichloro-4-pyridinyl)-4-methoxybenzamide

Description:
Potent and selective inhibitor of phosphodiesterase (PDE) 4 ($IC_{50} = 1$ nM at PDE4 from human neutrophils). Displays $>19,000$-fold selectivity over other PDE isoenzymes. Exhibits anti-inflammatory effects in models of allergic inflammation. Also inhibits LTB$_4$ synthesis in human neutrophils ($IC_{50} = 2$ nM).

Physical and Chemical Properties:
Batch Molecular Formula: C$_{19}$H$_{16}$Cl$_2$N$_2$O$_3$
Batch Molecular Weight: 381.25
Physical Appearance: White solid
Minimum Purity: $>99\%$

Storage: Store at RT

Solubility & Usage Info:
DMSO to 100 mM
ethanol to 20 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: