Product Name: Piroxicam  
Catalog No.: 0960  
Batch No.: 4  
CAS Number: 36322-90-4  
EC Number: 252-974-3  
IUPAC Name: 3,4-Dihydro-2-methyl-4-oxo-N-2-pyridyl-2H-1,2-benzothiazine-3-carboxamide 1,1-dioxide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{15}\text{H}_{13}\text{N}_{3}\text{O}_{4}\text{S} \cdot 1/4\text{H}_{2}\text{O} \)

Batch Molecular Weight: 335.85

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

2. ANALYTICAL DATA

HPLC: Shows >99.9% purity

\(^1\text{H} \text{NMR:} \) 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>Carbon</td>
<td>53.64</td>
<td>53.86</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>4.05</td>
<td>3.83</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>12.51</td>
<td>12.56</td>
</tr>
</tbody>
</table>
**Product Information**

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**Description:**
Anti-inflammatory; highly selective inhibitor of COX-1 (ratio of IC50 values for COX-2/COX-1 ~ 600).

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C15H13N3O4S·¼H2O
- **Batch Molecular Weight:** 335.85
- **Physical Appearance:** White solid
- **Minimum Purity:** >99%

**Storage:** Store at RT

**Solubility & Usage Info:**
DMSO to 100 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:**