1. PHYSICAL AND CHEMICAL PROPERTIES

- **Batch Molecular Formula:** $C_{14}H_{9}N_{2}O_{3}SCl$
- **Batch Molecular Weight:** 320.75
- **Physical Appearance:** Pale yellow solid
- **Solubility:** DMSO to 100 mM
- **Storage:** Store at +4°C
- **Batch Molecular Structure:**

![Molecular Structure](image)

2. ANALYTICAL DATA

- **TLC:** $R_f = 0.2$ (Chloroform:Methanol [9:1])
- **HPLC:** Shows >99.7% 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>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>52.42</td>
<td>2.83</td>
<td>8.73</td>
<td>11.05</td>
</tr>
<tr>
<td>Found</td>
<td>52.16</td>
<td>2.81</td>
<td>8.67</td>
<td>11.1</td>
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</tbody>
</table>
**Product Information**

**Product Name:** Tenidap  
**Catalog No.:** 2580  
**Batch No.:** 1

**CAS Number:** 120210-48-2  
**IUPAC Name:** 5-Chloro-2,3-dihydro-3-(hydroxy-2-thienylmethylene)-2-oxo-1H-indole-1-carboxamide

**Description:**
NSAID that preferentially inhibits COX-1 (IC\textsubscript{50} values are < 0.03, 1.2 and > 30 μM for COX-1, COX-2 and 5-lipoxygenase respectively). Inhibits formation of pro-inflammatory arachidonic acid metabolites in isolated human peripheral polymorphonuclear leukocytes. Opener of inward rectifying hK\textsubscript{2.3} channel (EC\textsubscript{50} = 402 nM).

**Physical and Chemical Properties:**
- Batch Molecular Formula: C\textsubscript{19}H\textsubscript{16}N\textsubscript{2}O\textsubscript{3}S\textsubscript{Cl}
- Batch Molecular Weight: 320.75
- Physical Appearance: Pale yellow solid
- Minimum Purity: >99%
- Batch Molecular Structure:

```
\[
\begin{array}{c}
\text{Cl} \\
\text{S} \\
\text{N} \\
\text{O} \\
\text{NH}_2 \\
\end{array}
\]
```

**Storage:** Store at +4°C

**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:**

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

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