1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** \( \text{C}_{14}\text{H}_9\text{N}_2\text{O}_3\text{SCl} \)

**Batch Molecular Weight:** 320.75

**Physical Appearance:** Pale yellow solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**

![Batch Molecular Structure](image)

2. ANALYTICAL DATA

**TLC:** \( R_f = 0.2 \) (Chloroform:Methanol [9:1])

**HPLC:** Shows >99.7% purity

**\(^1\text{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>
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<tr>
<td>Found</td>
<td>52.16</td>
<td>2.81</td>
<td>8.67</td>
<td>11.1</td>
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</table>
Product Name: Tenidap  
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 (IC50 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 hK2.3 channel (EC50 = 402 nM).

Physical and Chemical Properties: 
Batch Molecular Formula: C14H9N2O3SCl 
Batch Molecular Weight: 320.75 
Physical Appearance: Pale yellow solid 
Minimum Purity: >99%

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: 