

**Product Name:** Tenidap

**Catalog No.:** 2580

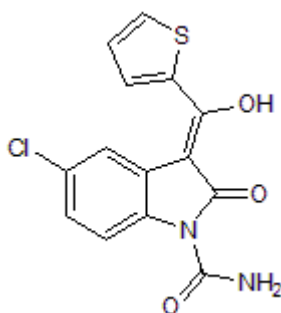
**Batch No.:** 1

**CAS Number:** 120210-48-2

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

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>14</sub>H<sub>9</sub>N<sub>2</sub>O<sub>3</sub>SCI  
**Batch Molecular Weight:** 320.75  
**Physical Appearance:** Pale yellow solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.2 (Chloroform:Methanol [9:1])  
**HPLC:** Shows >99.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	52.42	2.83	8.73	11.05
Found	52.16	2.81	8.67	11.1

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**Description:**

NSAID that preferentially inhibits COX-1 (IC<sub>50</sub> 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<sub>ir</sub>2.3 channel (EC<sub>50</sub> = 402 nM).

**Physical and Chemical Properties:**

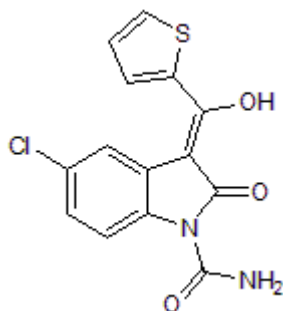
Batch Molecular Formula: C<sub>14</sub>H<sub>9</sub>N<sub>2</sub>O<sub>3</sub>SCl

Batch Molecular Weight: 320.75

Physical Appearance: Pale yellow solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**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:**

**Moilanen et al** (1988) CP-66,248, a new anti-inflammatory agent, is a potent inhibitor of leukotriene B<sub>4</sub> and prostanoid synthesis in human polymorphonuclear leukocytes in vitro. *Eicosanoids* **1** 35. PMID: 2856170.

**Kirchner et al** (1997) Evaluation of the antiinflammatory activity of a dual cyclooxygenase-2 selective/5-lipoxygenase inhibitor, RWJ 63556, in a canine model of inflammation. *J.Pharmacol.Exp.Ther.* **282** 1094. PMID: 9262379.

**Liu et al** (2002) Tenidap, a novel anti-inflammatory agent, is an opener of the inwardly rectifying K<sup>+</sup> channel hKir2.3. *Eur.J.Pharmacol.* **435** 153. PMID: 11821021.

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