

Certificate of Analysis

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Product Name: Tenidap

Catalog No.: 2580

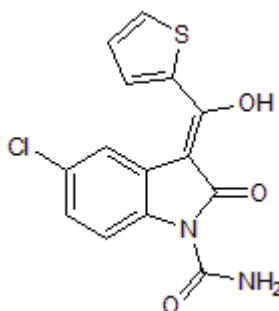
Batch No.: 1

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: C₁₄H₉N₂O₃SCl
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_f = 0.2 (Chloroform:Methanol [9:1])
HPLC: Shows >99.7% purity
¹H 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 |

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

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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 hK_{ir}2.3 channel (EC₅₀ = 402 nM).

Physical and Chemical Properties:

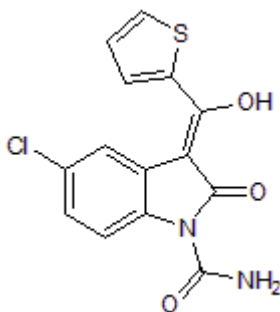
Batch Molecular Formula: C₁₄H₉N₂O₃SCl

Batch Molecular Weight: 320.75

Physical Appearance: Pale yellow solid

Minimum Purity: >99%

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 B₄ and prostanoid synthesis in human polymorphonuclear leucocytes 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⁺ channel hKir2.3. *Eur.J.Pharmacol.* **435** 153. PMID: 11821021.

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