

Product Name: SKI II

Catalog No.: 2097

Batch No.: 3

CAS Number: 312636-16-1

IUPAC Name: 4-[[4-(4-Chlorophenyl)-2-thiazolyl]amino]phenol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{11}ClN_2OS \cdot \frac{1}{4}H_2O$

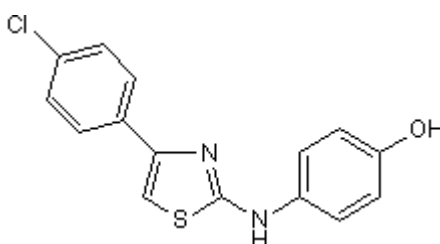
Batch Molecular Weight: 307.28

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.37$ (Ethyl acetate:Petroleum ether [3:7])

HPLC: Shows 100% purity

1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.63	3.77	9.12
Found	58.6	3.8	9.17

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

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IUPAC Name: 4-[[4-(4-Chlorophenyl)-2-thiazolyl]amino]phenol

Description:

Selective non-lipid inhibitor of sphingosine kinase ($IC_{50} = 0.5 \mu M$); does not act at ATP-binding site. Displays no inhibition of ERK2, PI 3-kinase, or PKC α at concentrations up to 60 μM . Reduces levels of sphingosine-1-phosphate in MDA-MB-231 breast cancer cells. Induces apoptosis and inhibits proliferation in several other tumor cell lines in vitro ($IC_{50} = 0.9 - 4.6 \mu M$).

Physical and Chemical Properties:

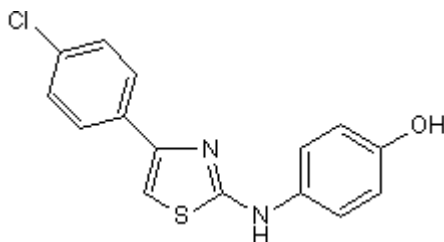
Batch Molecular Formula: $C_{15}H_{11}ClN_2OS \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 307.28

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

French et al (2003) Discovery and evaluation of inhibitors of human sphingosine kinase. *Cancer Res.* **63** 5862.

French et al (2006) Antitumor activity of sphingosine kinase inhibitors. *J.Pharmacol.Exp.Ther.* **318** 596. PMID: 16632640.

Storage: Store at -20°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.

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