

## Certificate of Analysis

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**Product Name:** Ceranib 1

**Catalog No.:** 4448

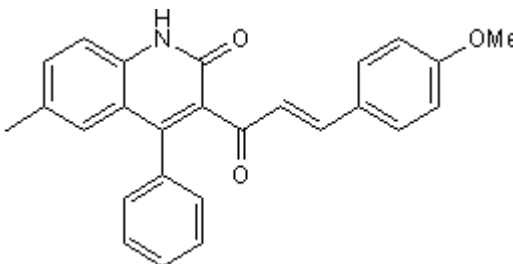
**Batch No.:** 1

CAS Number: 328076-61-5

IUPAC Name: 3-[(2E)-3-(4-Methoxyphenyl)-1-oxo-2-propen-1-yl]-6-methyl-4-phenyl-2(1H)-quinolinone

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{26}H_{21}NO_3 \cdot \frac{1}{2}H_2O$   
**Batch Molecular Weight:** 404.46  
**Physical Appearance:** Pale yellow solid  
**Solubility:** DMSO to 100 mM  
ethanol to 10 mM with gentle warming  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 98.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	77.21	5.48	3.46
Found	77.21	5.48	3.6

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

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**Description:**

Ceramidase inhibitor; inhibits proliferation in SKOV3 ovarian carcinoma cells (IC<sub>50</sub> = 3.9 μM). Induces accumulation of ceramide species and decreases sphingosine and sphingosine-1-phosphate (S1P) levels in SKOV3 cells.

**Physical and Chemical Properties:**

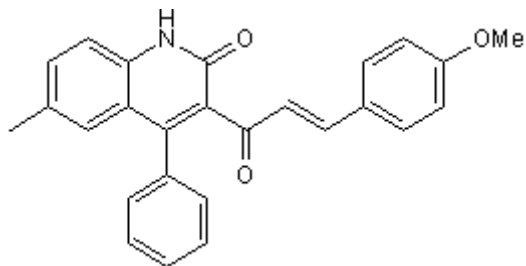
Batch Molecular Formula: C<sub>26</sub>H<sub>21</sub>NO<sub>3</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 404.46

Physical Appearance: Pale yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 10 mM with gentle warming

**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:**

Draper *et al* (2011) Discovery and evaluation of inhibitors of human ceramidase. *Mol. Cancer Ther.* **10** 2052. PMID: 21885864.

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