Product Name: Ceranib 1
CAS Number: 328076-61-5
IUPAC Name: 3-[[2(E)-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}·\frac{1}{2}H_{2}O

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:

![Molecular Structure Image]

2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

\(^1\)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>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>77.21</td>
<td>5.48</td>
<td>3.46</td>
</tr>
<tr>
<td>Found</td>
<td>77.21</td>
<td>5.48</td>
<td>3.6</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Name: Ceranib 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

Description:  
Ceramidase inhibitor; inhibits proliferation in SKOV3 ovarian carcinoma cells (IC50 = 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: C20H17NO5·½H2O  
Batch Molecular Weight: 404.46  
Physical Appearance: Pale yellow solid  
Minimum Purity: >98%  

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:  