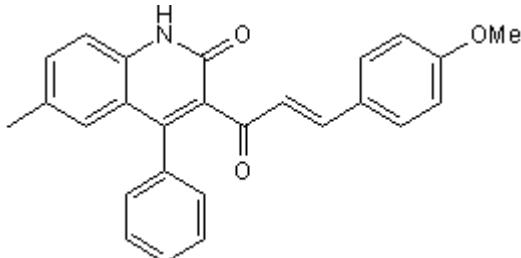


Certificate of Analysiswww.tocris.com**Product Name:** Ceranib 1**Catalog No.:** 4448**Batch No.:** 1

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:** C₂₆H₂₁NO₃·½H₂O**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**¹H 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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Product Information

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

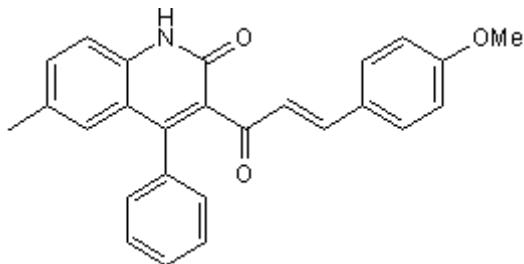
Catalog No.: 4448**Batch No.:** 1**Description:**

Ceramidase inhibitor; inhibits proliferation in SKOV3 ovarian carcinoma cells ($IC_{50} = 3.9 \mu M$). Induces accumulation of ceramide species and decreases sphingosine and sphingosine-1-phosphate (S1P) levels in SKOV3 cells.

Physical and Chemical Properties:Batch Molecular Formula: $C_{26}H_{21}NO_3 \cdot \frac{1}{2}H_2O$

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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