

**Product Name:** DEL 22379

**Catalog No.:** 5774

**Batch No.:** 1

CAS Number: 181223-80-3

IUPAC Name: *N*-[2,3-Dihydro-3-[(5-methoxy-1*H*-indol-3-yl)methylene]-2-oxo-1*H*-indol-5-yl]-1-piperidinepropanamide

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>26</sub>H<sub>28</sub>N<sub>4</sub>O<sub>3</sub>·1½H<sub>2</sub>O

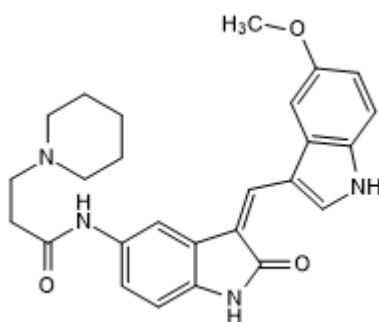
**Batch Molecular Weight:** 467.05

**Physical Appearance:** Orange solid

**Solubility:** DMSO to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	66.86	6.58	12
Found	67.06	6.54	11.81

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

**Product Name:** DEL 22379

**Catalog No.:** 5774

**Batch No.:** 1

CAS Number: 181223-80-3

IUPAC Name: *N*-[2,3-Dihydro-3-[(5-methoxy-1*H*-indol-3-yl)methylene]-2-oxo-1*H*-indol-5-yl]-1-piperidinepropanamide

**Description:**

ERK dimerization inhibitor (IC<sub>50</sub> ~ 0.5 μM); inhibits ERK dimerization without affecting phosphorylation or kinase activity. Suppresses growth of tumor cells expressing RAS-ERK oncogenes in vitro. Induces apoptosis and prevents tumor progression in vivo.

**Physical and Chemical Properties:**

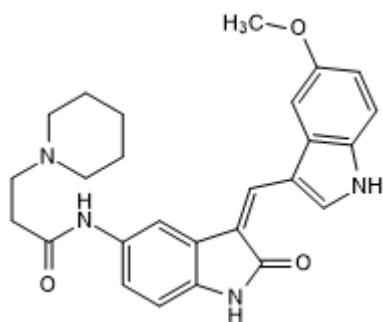
Batch Molecular Formula: C<sub>26</sub>H<sub>28</sub>N<sub>4</sub>O<sub>3</sub>·1¼H<sub>2</sub>O

Batch Molecular Weight: 467.05

Physical Appearance: Orange solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°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 50 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:**

**Herrero et al** (2015) Small molecule inhibition of ERK dimerization prevents tumorigenesis by RAS-ERK pathway oncogenes. *Cancer Cell* **28** 170. PMID: 26267534.

**Ryan et al** (2015) Targeting RAS-mutant cancers: is ERK the key? *Trends Cancer* **1** 183. PMID: 26858988.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956