

**Product Name:** Cysmethynil

**Catalog No.:** 7337

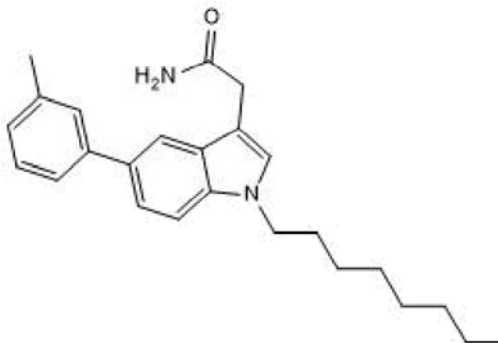
**Batch No.:** 1

CAS Number: 851636-83-4

IUPAC Name: 5-(3-Methylphenyl)-1-octyl-1*H*-indole-3-acetamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>25</sub>H<sub>32</sub>N<sub>2</sub>O.  
**Batch Molecular Weight:** 376.54  
**Physical Appearance:** White solid  
**Solubility:** ethanol to 100 mM  
DMSO to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	79.74	8.57	7.44
Found	79.81	8.68	7.37

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

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**Description:**

Cysmethynil is an isoprenylcysteine carboxylmethyltransferase (ICMT) inhibitor ( $IC_{50} = 2.4 \mu M$ ). Cysmethynil reduces growth of RAS-mutant cell lines in vitro and in vivo ( $EC_{50} = 20 \mu M$ ) and reduces cell viability in a variety of cell lines ( $IC_{50} = 16.8-23.3 \mu M$ ). Tumor growth, mTOR signaling and cell proliferation are inhibited by cysmethynil; apoptosis is induced. Cysmethynil increases p27 and p21 proteins and arrests cell-cycle at the G<sub>1</sub> phase.

**Physical and Chemical Properties:**

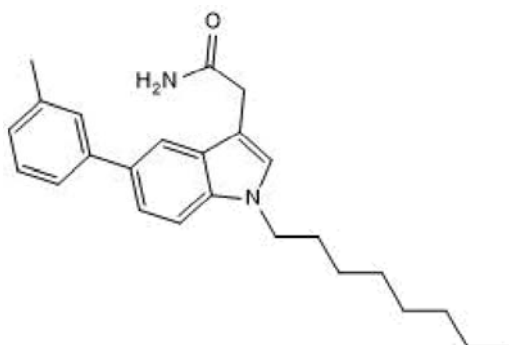
Batch Molecular Formula: C<sub>25</sub>H<sub>32</sub>N<sub>2</sub>O.

Batch Molecular Weight: 376.54

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

ethanol to 100 mM

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:**

Moore *et al* (2020) RAS-targeted therapies: is the undruggable drugged? *Nat.Rev.Drug Discov.* **19** 533. PMID: 32528145.

Inhibition of isoprenylcysteine carboxylmethyltransferase induces cell-cycle arrest and apoptosis through p21 and p21-regulated BNIP3 induction in pancreatic cancer. .

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