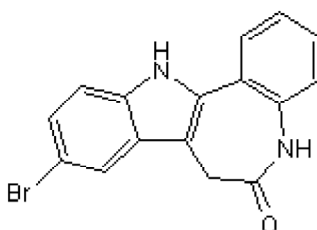


**Product Name:** Kenpaullone  
**CAS Number:** 142273-20-9  
**IUPAC Name:** 9-Bromo-7,12-dihydro-indolo[3,2-d][1]benzazepin-6(5H)-one

**Catalog No.:** 1398      **Batch No.:** 3

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>16</sub>H<sub>11</sub>BrN<sub>2</sub>O.¼H<sub>2</sub>O  
**Batch Molecular Weight:** 331.68  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.0% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.94	3.49	8.45
Found	57.02	3.39	8.17

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

**Product Name:** Kenpaullone

**Catalog No.:** 1398

**3**

CAS Number: 142273-20-9

IUPAC Name: 9-Bromo-7,12-dihydro-indolo[3,2-d][1]benzazepin-6(5H)-one

**Description:**

Kenpaullone is a GSK-3beta inhibitor (IC<sub>50</sub> = 0.23 μM). Also inhibits cyclin dependent kinases (cdks) in the sub micromolar range (reported IC<sub>50</sub> values are 0.4, 0.68-7 and 0.85 μM for cdk1, cdk2 and cdk5, respectively). Generates induced pluripotent stem cells (iPSCs) from somatic cells when used in combination with reprogramming factors; can replace Klf4.

**Physical and Chemical Properties:**

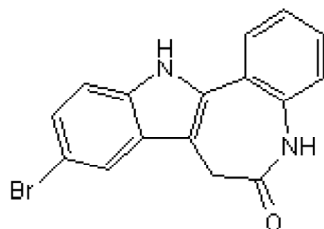
Batch Molecular Formula: C<sub>16</sub>H<sub>11</sub>BrN<sub>2</sub>O.¼H<sub>2</sub>O

Batch Molecular Weight: 331.68

Physical Appearance: Beige solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Jorda et al** (2018) How selective are pharmacological inhibitors of cell-cycle-regulating cyclin-dependent kinases? *J.Med.Chem.* **61** 9105. PMID: 30234987 .

**Lyssiotis et al** (2009) Reprogramming of murine fibroblasts to induced pluripotent stem cells with chemical complementation of Klf4. *Proc.Natl.Acad.Sci.U.S.A.* **106** 8912. PMID: 19447925 .

**Buolamwini** (2000) Cell cycle targets in novel anticancer drug discovery. *Curr.Pharm.Des.* **6** 379. PMID: 10788588.

**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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.

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