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## DATASHEET

Kenpaullone

### Product overview

<b>Name</b>	Kenpaullone
<b>Cat No</b>	HB1266
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Potent CDK inhibitor. Also GSK-3 inhibitor. Generates iPSCs.

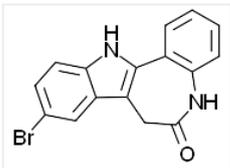
### Biological Data

<b>Biological description</b>	Potent, ATP-competitive CDK inhibitor (IC <sub>50</sub> values are 0.4, 0.68, 7.5, 0.85 μM for CDK1/cyclinB, CDK2/cyclinA, CDK2/cyclinE and CDK5/p25 respectively). Also inhibits GSK-3β and LCK (IC <sub>50</sub> values are 0.23 and 0.47 μM respectively) Displays reduced activity for other kinases (IC <sub>50</sub> values are 15, 20, 20, 9 μM for c-src, casein kinase 2, ERK1 and ERK2 respectively). Also Generates iPSCs. Displays antiproliferative properties.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in DMSO (100mM, gentle warming) or ethanol (5mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	9-Bromo-7,12-dihydro-indolo[3,2-d][1]benzazepin-6(5H)-one
<b>Molecular Weight</b>	327.18
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>16</sub> H <sub>11</sub> BrN <sub>2</sub> O
<b>CAS Number</b>	142273-20-9
<b>PubChem identifier</b>	3820
<b>SMILES</b>	BrC1=CC=C2NC3=C(C(=O)NC4=CC=CC=C4)C2=C1
<b>InChiKey</b>	QQUXFYAWXPMDOE-UHFFFAOYSA-N

### References

**Discovery and initial characterization of the paullones, a novel class of small-molecule inhibitors of cyclin-dependent kinases.**

Zaharevitz DW *et al* (1999) Cancer Res 59(11)

**PubMedID** [10363974](https://pubmed.ncbi.nlm.nih.gov/10363974/)

### **The specificities of protein kinase inhibitors: an update.**

Bain J *et al* (2003) *Biochem J* 371(Pt 1)

**PubMedID** [12534346](#)

### **New thiophene analogues of kenpauillone: synthesis and biological evaluation in breast cancer cells.**

Brault L *et al* (2005) *Eur J Med Chem* 40(8)

**PubMedID** [16122578](#)

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