

## Product Datasheet

### Kenpaullone (orb1226311)

<b>Catalog Number</b>	orb1226311
<b>Category</b>	Small Molecules
<b>Description</b>	Kenpaullone (9-Bromopaullone, NSC-664704) is a potent inhibitor of CDK1/cyclin B with IC50 of 0.4 uM, also inhibited CDK2/cyclin A (IC50=0.68 uM), CDK2/cyclin E (IC50=7.5 uM) and CDK5/p25 (IC50=0.85 uM); shows less effect on other kinases, only c-Src, CK2, ERK1/2 (IC50=15-20 uM) with IC50s less than 30 uM; displays delayed cell cycle progression in treated cells; also is a potent inhibitor of GSK-3β (IC50=23 nM), activates Nanog expression in mouse fibroblasts transduced with a subset of reprogramming factors lacking Klf4, can replace Klf4 in the reprogramming of primary and secondary fibroblasts and NPCs.
<b>Target</b>	CDK
<b>Purity</b>	>98% (HPLC)
<b>MW</b>	327.1754
<b>Target Areas</b>	CDK1/CyclinB CDK2/CyclinA CDK2/CyclinE CDK5/p35 GSK-3β
<b>Solubility (25°C)</b>	DMSO: ≥ 35 mg/mL
<b>CAS Number</b>	142273-20-9
<b>Formula</b>	C <sub>16</sub> H <sub>11</sub> BrN <sub>2</sub> O
<b>SMILES</b>	O=C(NC1=CC=CC=C12)CC3=C2NC4=C3C=C(Br)C=C4
<b>Chemical Name</b>	Indolo[3,2-d][1]benzazepin-6(5H)-one, 9-bromo-7,12-dihydro-
<b>Storage</b>	Storage temperature: -20°C. Stability: ≥ 2 years
<b>Note</b>	For research use only

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**Expiration Date**

12 months from date of receipt.

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