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DATASHEET

Kenpaullone

Product overview

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

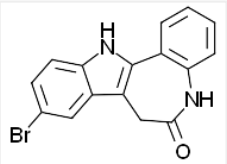
Biological Data

Biological description	Potent, ATP-competitive CDK inhibitor (IC_{50} 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_{50} values are 0.23 and 0.47 µM respectively) Displays reduced activity for other kinases (IC_{50} values are 15, 20, 20, 9 µM for c-src, casein kinase 2, ERK1 and ERK2 respectively). Also Generates iPSCs. Displays antiproliferative properties.

Solubility & Handling

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

Chemical Data

Chemical name	9-Bromo-7,12-dihydro-indolo[3,2-*d*][1]benzazepin-6(5*H*)-one
Molecular Weight	327.18
Chemical structure	
Molecular Formula	$C_{16}H_{11}BrN_2O$
CAS Number	142273-20-9
PubChem identifier	3820
SMILES	BrC1=CC=C2NC3=C(CC(=O)NC4=CC=CC=C34)C2=C1
InChiKey	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)
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The specificities of protein kinase inhibitors: an update.

Bain J *et al* (2003) Biochem J 371(Pt 1)
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New thiophene analogues of kenpaullone: synthesis and biological evaluation in breast cancer cells.

Brault L *et al* (2005) Eur J Med Chem 40(8)
PubMedID 16122578