

LDC000067

Catalog No: tcsc3391



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

1073485-20-7

Formula:

$C_{18}H_{18}N_4O_3S$

Pathway:

Cell Cycle/DNA Damage

Target:

CDK

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 47 mg/mL (126.88 mM)

Alternative Names:

LDC067

Observed Molecular Weight:

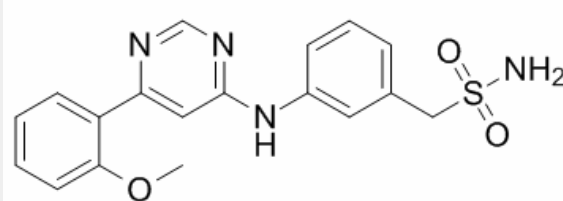
370.43

Product Description

LDC000067 is a highly specific **CDK9** inhibitor with an **IC₅₀** value of 44±10 nM *in vitro*.

IC50 & Target: IC50: 44±10 nM (CDK9-Cyclin T1), 2441 nM (CDK2-Cyclin A)^[1]

In Vitro: The selectivity of LDC000067 for CDK9 over other CDKs exceeds that of the known inhibitors flavopiridol and DRB. LDC000067 displayed 55/125/210/ >227/ >227-fold selectivity for CDK9 versus CDK2/1/4/6/7. LDC000067 inhibits *in vitro* transcription in an ATP-competitive and dose-dependent manner. Gene expression profiling of cells treated with LDC000067 demonstrates a selective reduction of short-lived mRNAs, including important regulators of proliferation and apoptosis^[1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!