# MCE MedChemExpress

## **Product** Data Sheet

## CDK4/6-IN-7

Cat. No.: HY-143257 CAS No.: 2649120-20-5 Molecular Formula:  $C_{18}H_{18}ClN_5O_3$ 

Molecular Weight: 387.82

Target: CDK

Pathway: Cell Cycle/DNA Damage

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

### **BIOLOGICAL ACTIVITY**

Description CDK4/6-IN-7 is a potent, selective and orally active CDK4/6 inhibitor, with IC<sub>50</sub>s of 1.58 and 4.09 nM, respectively. CDK4/6-IN-7 can be used for the research of breast cancer<sup>[1]</sup>.

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IC<sub>50</sub> & Target CDK4 CDK6

1.58 nM (IC<sub>50</sub>) 4.09 nM (IC<sub>50</sub>)

In Vitro CDK4/6-IN-7 (compound 7c) (0.1-656.1  $\mu$ M; 48 h) inhibits the viability of MCF-7 cells, with an IC<sub>50</sub> of 0.92  $\mu$ M<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Proliferation Assay<sup>[1]</sup>

Cell Line:	MCF-7 cells
Concentration:	0.1, 0.3, 0.9, 2.7, 8.1, 24.3, 72.9, 218.7, 656.1 μM
Incubation Time:	48 hours
Result:	Inhibited MCF-7 cells growth, with an IC <sub>50</sub> of 0.92 μM.

### In Vivo

CDK4/6-IN-7 (compound 7c) (50 mg/kg; p.o. once daily for 7d) strongly reduces tumor growth rates in MCF-7 tumor-bearing  $mice^{[1]}$ .

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Animal Model:	Female nude mice (5 weeks) bearing MCF-7 tumor <sup>[1]</sup>
Dosage:	50 mg/kg
Administration:	Oral gavage once daily for 7 days
Result:	Inhibited tumor growth with the tumor inhibition rate of 57.68% and was well tolerated.

#### **REFERENCES**



Page 2 of 2 www.MedChemExpress.com