TCS7010

Cat. No.: HY-70061

CAS No.: 1158838-45-9

Molecular Formula: $C_{31}H_{31}ClFN_7O_2$

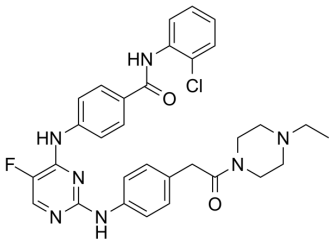
Molecular Weight: 588.08

Target: Aurora Kinase; Apoptosis

Pathway: Cell Cycle/DNA Damage; Epigenetics; Apoptosis

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (85.02 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.7004 mL	8.5022 mL	17.0045 mL
5 mM	0.3401 mL	1.7004 mL	3.4009 mL
10 mM	0.1700 mL	0.8502 mL	1.7004 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (4.25 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

TCS7010 is a potent and highly selective Aurora A inhibitor with with an IC_{50} of 3.4 nM.

IC_{50} & Target

Aurora A	Aurora B
3.4 nM (IC_{50})	3.4 μM (IC_{50})

In Vitro

TCS7010 is exceptionally selective Aurora A inhibitors. TCS7010 is an useful tool compounds for investigating the cellular role of Aurora A kinases without the complication of also inhibiting Aurora B[1].

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

CUSTOMER VALIDATION

- J Biomol Screen. 2013 Oct;18(9):1062-71.
- Harvard Medical School LINCS LIBRARY

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REFERENCES

[1]. Aliagas-Martin I, Burdick D, Corson L, Dotson J, Drummond J, Fields C, Huang OW, Hunsaker T, Kleinheinz T, Krueger E, Liang J, Moffat J, Phillips G, Pulk R, Rawson TE, Ultsch M, Walker L, Wiesmann C, Zhang B, Zhu BY, Cochran AG.A class of 2,4-bisanilinopy

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