Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

CYC-116

Catalog No: tcsc0112

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
693228-63-6

Formula:
$C_{18}H_{20}N_6OS$

Pathway:
Cell Cycle/DNA Damage;Epigenetics

Target:
Aurora Kinase;Aurora Kinase

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
368.46

Product Description

CYC-116 is a potent **aurora A** and **aurora B** inhibitor with **K_i**s of 8 and 9 nM, respectively.

IC50 & Target: Ki: 8 nM (aurora 1), 9 nM (aurora 2)[1]

In Vitro:

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CYC-116 also inhibits VEGFR2, Src, Lck AND FLT3 with with K_is of 44, 82, 280, 44 nM, respectively. CYC-116 may have broad-spectrum antitumor activity. CYC-116 shows potent antiproliferative activity against cancer cell lines with with IC_{50}s of 0.599, 0.59, 0.241, 0.34, 0.725, 1.375, 0.471, 0.034, 0.372, 0.681, 0.151, 1.626, 0.775, 0.308, 0.110, 0.09 for MCF7, HeLa, Colo205, HCT-116, HT29, K562, CCRF-CEM, MV4-11, HL60, NCI-H460, A2780, BxPC3, HuPT4, Mia-Paca-2, Saos-2, Messa cells. Treatment with 1.25 μM CYC-116 for 7 h results in complete inhibition of histone H3 phosphorylation in HeLa cell lysates[1].

In Vivo: Oral administration of CYC-116 at dose levels of 75 and 100 mg/kg q.d. causes tumor growth delays of 2.3 and 5.8 days, which translates into specific growth delays of 0.32 and 0.81, respectively. The mean relative tumor volumes of mice receiving CYC-116 at both dose levels are less than those of vehicle-treated mice for the duration of the study period. At 100 mg/kg po q.d., the reduction in growth is statistically significant on days 6 and 9[1].