Web: www.taiclone.com
Tel: +886-2-2735-9682
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WZ4003

Catalog No: tcsc3258

Available Sizes

Size: 5mg

Size: 50mg

Specifications

CAS No:
1214265-58-3

Formula:
$C_{25}H_{29}ClN_6O_3$

Pathway:
Epigenetics;PI3K/Akt/mTOR

Target:
AMPK;AMPK

Purity / Grade:
>98%

Solubility:
DMSO : 24.5 mg/mL (49.30 mM; Need ultrasonic and warming)

Observed Molecular Weight:
496.99

Product Description

WZ4003 is the first potent and highly specific **NUAK kinase** inhibitor with **IC_{50}** of 20 nM/100 nM for NUAK1/NUAK2, without significant inhibition on other 139 kinases.

IC50 & Target: IC50: 20 nM (NUAK1), 100 nM (NUAK2)

In Vitro: WZ4003 (3-10 μM) markedly suppresses NUAK1-mediated MYPT1 phosphorylation, in HEK-293 cells expressing wild-type

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NUAK1. Moreover, WZ4003 (10 μM) inhibits MYPT1 Ser445 phosphorylation as well as cell migration, invasion and proliferation to a similar extent as knock out in MEFs or knock down in U2OS cells of NUAK1[1]. WZ4003 also exhibits a high, specific affinity to the L858R/T790M mutant EGFR, while a significantly reduced cellular IC_{50} against T790M containing Ba/F3 cells[2].