

# 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

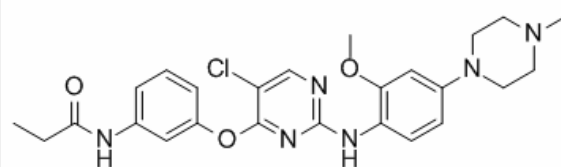
## Product Description

WZ4003 is the first potent and highly specific **NUAK kinase** inhibitor with **IC<sub>50</sub>** of 20 nM/100 nM for NUA1/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 NUA1-mediated MYPT1 phosphorylation, in HEK-293 cells expressing wild-type

NUAK1. Moreover, WZ4003 (10  $\mu$ M) 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<sup>[1]</sup>. WZ4003 also exhibits a high, specific affinity to the L858R/T790M mutant EGFR, while a significantly reduced cellular IC<sub>50</sub> against T790M containing Ba/F3 cells<sup>[2]</sup>.



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