



HTH-01-015

Catalog No: tcsc3344

Available Sizes	
Size: 5mg	
Size: 10mg	
Size: 50mg	
Size: 100mg	
Specifications	
CAS No: 1613724-42-7	
Formula: C ₂₆ H ₂₈ N ₈ O	
Pathway: Epigenetics;PI3K/Akt/mTOR	
Target: AMPK;AMPK	
Purity / Grade: >98%	
Solubility: 10 mM in DMSO	
Observed Molecular Weight:	

Product Description

468.55

HTH-01-015 is a selective **NUAK1** inhibitor (IC_{50} is 100 nM). HTH-01-015 inhibits NUAK1 with >100-fold higher potency than NUAK2





(IC50 of >10 μ M).

IC50 & Target: IC50: 100 nM (NUAK1)^[1]

In Vitro: HTH-01-015 is a specific NUAK1 inhibitor. The related NUAK1 and NUAK2 are members of the AMPK (AMP-activated protein kinase) family of protein kinases that are activated by the LKB1 (liver kinase B1) tumor suppressor kinase. HTH-01-015 inhibits NUAK1 with an IC $_{50}$ of 100 nM, but does not significantly inhibit NUAK2 (IC $_{50}$ of >10 μ M). In all cell lines tested, HTH-01-015 inhibits the phosphorylation of the only well-characterized substrate, MYPT1 (myosin phosphate-targeting subunit 1) that is phosphorylated by NUAK1 at Ser 445 . In U2OS cells, HTH-01-015 suppresses proliferation and phosphorylation of MYPT1 to the same extent as shRNA-mediated NUAK1 knockdown. In mouse embryonic fibroblasts (MEFs), treatment with 10 μ M HTH-01-015 suppresses proliferation and phosphorylation of MYPT1 to the same extent as NUAK1-knockout. To test whether NUAK1 inhibition impaired the ability of the invasive U2OS cells to enter a matrix, 3D Matrigel Transwell invasion assays demonstrate that 10 μ M HTH-01-015 markedly inhibits the invasiveness of U2OS cells in this assay^[1].

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