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

UNBS5162

Catalog No: tcsc3379

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
956590-23-1

Formula:
$C_{17}H_{18}N_4O_3$

Pathway:
GPCR/G Protein;Immunology/Inflammation;Autophagy

Target:
CXCR;CXCR;Autophagy

Purity / Grade:
>98%

Solubility:
DMSO : 21.5 mg/mL (65.88 mM; Need ultrasonic and warming)

Observed Molecular Weight:
326.35

Product Description

UNBS5162 is a pan-antagonist of **CXCL chemokine** expression, with anti-tumor activity.

IC50 & Target: CXCR[1]

In Vitro:

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UNBS5162 is a pan-antagonist of CXCL chemokine expression and exhibits weak antiproliferative activity against human cancer cell lines with mean IC_{50} of 17.9 μM. UNBS5162 markedly impairs PC-3 tumor cell growth kinetics, without inducing senescence, whereas the reverse feature is observed with respect to DU-145 cells[1]. UNBS5162 is cytotoxic to a range of human cancer cell lines including glioblastoma (Hs683 and U373MG), colorectal (HCT-15 and LoVo), non-small-cell lung (A549) and breast (MCF-7), with IC_{50} s of 0.5-5 μM. UNBS5162 also markedly increases the levels of expression of LC3-I and LC3-II in human cancer cells. UNBS5162 displays no anti-topoisomerase II activity. Moreover, UNBS5162 induces cancer cell death through lysosomal membrane permeabilization (LMP) in PC3 prostate cancer cells but not in U373 glioblastoma cells, with this LMP process occurring as an UNBS5162-induced decrease in Hsp70 expression[2]. UNBS5162 inhibits the proliferation of esophageal cancer squamous cells via the PI3K/AKT signaling pathway. UNBS5162 downregulates the protein expression of proteins associated with the PI3K/AKT signaling pathway, including the levels of phosphorylated (p)-AKT, p-mechanistic target of rapamycin kinase, ribosomal protein S6 kinase β1 and cyclin D1[3].

In Vivo: UNBS5162 (20 mg/kg, i.v.) increases the therapeutic benefits of taxol in vivo in the orthotopic human PC-3 prostate cancer model[1].