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

OTSSP167

Catalog No: tcsc1147

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
1431697-89-0

Formula:
$C_{25}H_{28}Cl_2N_4O_2$

Pathway:
PI3K/Akt/mTOR

Target:
MELK

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
MELK inhibitor

Observed Molecular Weight:
487.42

Product Description

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OTSSP167 is a highly potent **MELK** inhibitor with **IC_{50}** value of 0.41 nM.

IC50 & Target: IC50: 0.41 nM (MELK)

In Vitro: OTSSP167 inhibits the growth of A549 (lung), T47D (breast), DU4475 (breast), 22Rv1 (prostate) and HT1197 (bladder) cancer cells with IC_{50} values of 6.7, 4.3, 2.3, 6.0 and 97 nM, respectively[1]. OTSSP167 can abrogate the mitotic checkpoint, disrupt MCC and MCC-APC/C interaction in MCF7 cells. OTSSP167 causes GFP-MELK localization to cell cortex in prometaphase cells[2]. OTSSP167 is a MELK selective inhibitor, exhibits a strong in vitro activity, conferring an IC_{50} of 0.41 nM[3].

In Vivo: OTSSP167 (20 mg/kg, i.v.) results in tumor growth inhibition (TGI) of 73% in xenograft mouse model; OTSSP167 (1, 5, and 10 mg/kg, p.o.) reveals TGI of 51, 91, and 108%, respectively. OTSSP167 (20 mg/kg, p.o.) shows no tumor growth suppressive effect on PC-14 xenografts[1].