

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

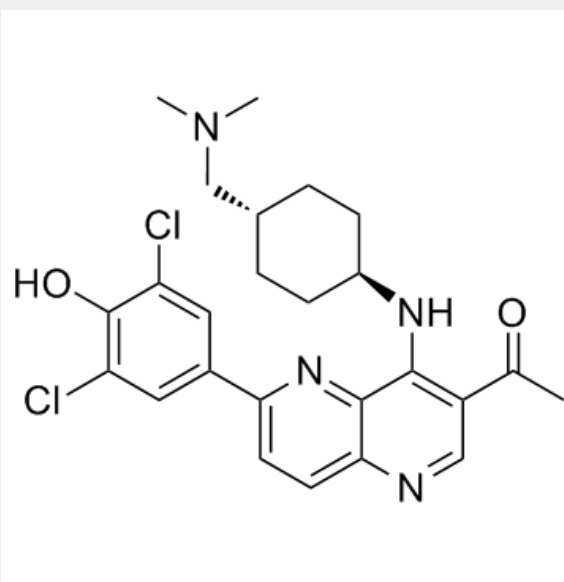
Product Description

OTSSP167 is a highly potent **MELK** inhibitor with **IC₅₀** 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 IC₅₀ 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 IC₅₀ 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].



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