

# 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

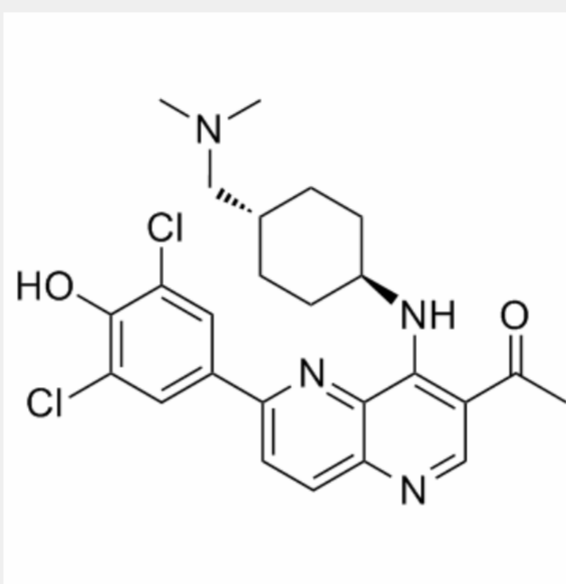
## Product Description

OTSSP167 is a highly potent **MELK** inhibitor with **IC<sub>50</sub>** 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<sub>50</sub> values of 6.7, 4.3, 2.3, 6.0 and 97 nM, respectively<sup>[1]</sup>. 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<sup>[2]</sup>. OTSSP167 is a MELK selective inhibitor, exhibits a strong in vitro activity, conferring an IC<sub>50</sub> of 0.41 nM<sup>[3]</sup>.

**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<sup>[1]</sup>.



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