Web: www.taiclone.com
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JNJ-47117096 hydrochloride

Catalog No: tcsc0011272

Available Sizes

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1610536-69-0

Formula:
$C_{21}H_{23}ClN_4O_2$

Pathway:
Protein Tyrosine Kinase/RTK;PI3K/Akt/mTOR

Target:
FLT3;MELK

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 250 mg/mL (626.74 mM)

Alternative Names:
MELK-T1 hydrochloride

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Observed Molecular Weight:
398.89

Product Description

JNJ-47117096 hydrochloride is potent and selective **MELK** inhibitor, with an **IC_{50}** of 23 nM, also effectively inhibits **Flt3**, with an **IC_{50}** of 18 nM.

IC50 & Target: IC50: 23 nM (MELK), 18 nM (Flt3)[1]

In Vitro: JNJ-47117096 hydrochloride is potent and selective MELK inhibitor, with an IC_{50} of 23 nM, also effectively inhibits Flt3, with an IC_{50} of 18 nM, and slighitly blocks CAMKIIδ, Mnk2, CAMKIIγ, and MLCK (IC_{50}, 810 nM, 760 nM, 1000 nM, 1000 nM). JNJ-47117096 (MELK-T1) suppresses the proliferation of Flt3-driven Ba/F3 cell lines, with an IC_{50} of 1.5 μM in the absence of IL-3, while no inhibitory activity is observed in the presence of IL-3. JNJ-47117096 does not inhibit the proliferation of Ba/F3 cell lines transfected with either FGFR1, FGFR3, or KDR, either in the presence or absence of IL-3[1]. JNJ-47117096 (MELK-T1, 10 μM) delays the progression of MCF-7 cells through S-phase. JNJ-47117096 inhibits MELK, and then exerts stalled replication forks and DNA double-strand breaks (DSBs). JNJ-47117096 activates the ATM-mediated DNA-damage response (DDR). JNJ-47117096 (3, 10 μM) results in a growth arrest and a senescent phenotype. Moreover, JNJ-47117096 induces a strong phosphorylation of p53, a prolonged up-regulation of p21 and a down-regulation of FOXM1 target genes[2].