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

JW 55

Catalog No: tcsc1757

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
664993-53-7

Formula:
$C_{25}H_{26}N_2O_5$

Pathway:
Epigenetics;Cell Cycle/DNA Damage

Target:
PARP;PARP

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 50 mg/mL (115.08 mM)

Observed Molecular Weight:
434.48

Product Description

JW 55 is a potent and selective **β-catenin** signaling pathway inhibitor, which functions via inhibition of the PARP domain of tankyrase 1 and tankyrase 2 (TNKS1/2). JW 55 decreases auto-PARsylation of TNKS1/2 in vitro with **IC_{50}**s of 1.9 μM and 830 nM respectively.

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IC50 & Target: IC50: 1.9 μM (TNKS1), 830 nM (TNKS2)[1]

In Vitro: JW 55 (JW55) is a potent and selective inhibitor of the canonical Wnt pathway. Wnt3a-induced HEK293 cells containing a transiently transfected ST-Luc (SuperTop-luciferase) reporter show inhibition by JW55 with an IC_{50} value of 470 nM. JW55 is effective in the range of 1 to 5 μM in SW480 cells and 0.01 to 5 μM in HCT-15 cells. JW55 is effective in the range of 1 to 5 μM in SW480 cells and 0.01 to 5 μM in HCT-15 cells[1].

In Vivo: JW 55 (100 mg/kg, orally) reduces tumor development in conditional *Apc* knockout mice. JW55 reduces XWnt8-induced axis duplication in*Xenopus* embryos and Tamoxifen-induced polyposis formation in conditional APC mutant mice[1].