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

IWR-1

Catalog No: tcsc3107

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
1127442-82-3

Formula:
$C_{25}H_{19}N_3O_3$

Pathway:
Stem Cell/Wnt

Target:
Wnt

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 46 mg/mL (112.35 mM)

Alternative Names:
endo-IWR 1;IWR-1-endo

Observed Molecular Weight:
409.44

Product Description

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IWR-1 is a **Wnt** pathway inhibitor with **IC_{50}** of 180 nM in L-cells expressing Wnt3A, and induces Axin2 protein levels and promotes β-catenin phosphorylation by stabilizing Axin-scaffolded destruction complexes.

IC50 & Target: IC50: 180 nM (Wnt)

In Vitro: Both IWR-1 and XAV939 act as reversible Wnt pathway inhibitors and exhibit similar pharmacological effects in vitro. IWR-1 exerts its effect via interaction with Axin, while XAV939 binds TNKS directly[1]. IWR-1 (10 μM) induces stabilization of β-catenin disruption complex. IWR-1 (10 μM) is added to the medium together with MIF, the size of cell colonies is extremely decreased, and that indicates the promoting effect of MIF on NSPC proliferation is inhibited by IWR-1 in any MIF concentration group. 2, 5 and 10 μM of IWR-1 significantly inhibits the proliferation of NSPC dose-dependently. IWR-1 inhibites the promoting effect of MIF on NSPC differentiation to neuron lineage[2]. IWR-1 treatment in the presence of maximal stimulatory dose of FSH (0.5 ng/mL) results in a dose dependent inhibition of the stimulatory effect of FSH with > 75% inhibition observed at the maximal inhibitory dose of IWR-1 (1 μM). IWR-1 treatment partially reverses the FSH-induced inhibition of granulosa cell CARTPT mRNA expression[3].