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

IWP-2

Catalog No: tcsc1578

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
686770-61-6

Formula:
$C_{22}H_{18}N_4O_2S_3$

Pathway:
Stem Cell/Wnt

Target:
Wnt

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Observed Molecular Weight:
466.6

Product Description

IWP-2 is an inhibitor of **Wnt** processing and secretion with **IC_{50}** of 27 nM.

IC50 & Target: IC50: 27 nM (Wnt)[1]

In Vitro: IWP-2, an inhibitor of WNT processing and secretion. IWP-2 significantly enhances the anti-proliferative effect of LEF. It is also obvious that the combination of LEF and IWP-2 could minimize the expression of β-catenin, c-Myc, Cyclin D1, Bcl2 and Bax to

the largest extent compared with single agents[2]. Following treatment in the MKN28 cell line for four days, 10-50 μM IWP-2 significantly suppressed the proliferation of MKN28 cells (P[3].

In Vivo: To evaluate the efficacy of IWP-2 in vivo, 200 μL each of IWP-2-liposome or free liposome i separately injected into C57BL/6 mice intraperitoneally about 2 h before injection of a similar volume of either blue-dye-filled latex beads or E. coli DH5α. IWP-2 causes significant reduction in the uptake of blue beads as well as E. coli as assessed by CFUs in peritoneal lavage cells within 2 h. In addition, the levels of TNF-α and IL-6 in the lavage fluid of the corresponding mice are reduced by 2-4-fold compared with control values. Interestingly, IWP-2 even induces a considerable increase in secretion of the anti-inflammatory cytokine IL-10[4].
Pretreatment with IWP-2 significantly (P[5].