

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

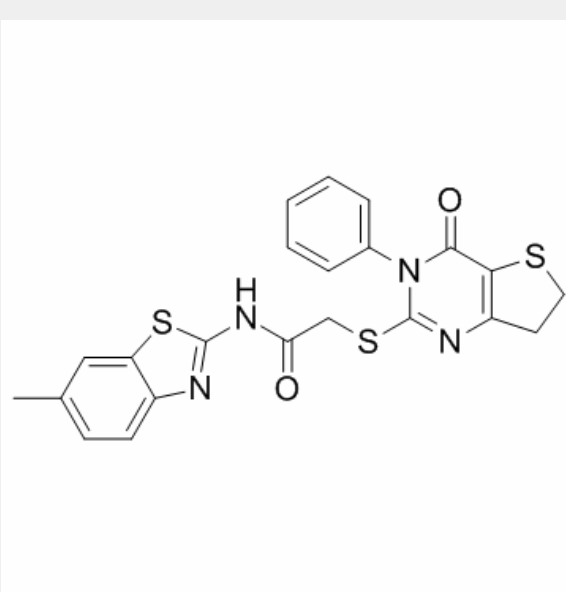
IWP-2 is an inhibitor of **Wnt** processing and secretion with **IC₅₀** of 27 nM.

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 μ M IWP-2 significantly suppressed the proliferation of MKN28 cells (P[3]).

In Vivo: To evaluate the efficacy of IWP-2 in vivo, 200 μ L 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 DH5 α . 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]).



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