

IWP-4

Catalog No: tcsc0012738



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 25mg



Specifications

CAS No:

686772-17-8

Formula:

$C_{23}H_{20}N_4O_3S_3$

Pathway:

Stem Cell/Wnt

Target:

Wnt

Purity / Grade:

>98%

Solubility:

DMSO : 5 mg/mL (10.07 mM; Need ultrasonic and warming)

Observed Molecular Weight:

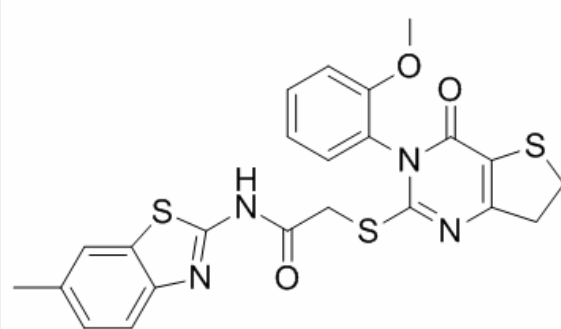
496.62

Product Description

IWP-4 is a small molecule **Wnt** inhibitor with an **IC₅₀** of 25 nM.

IC50 & Target: IC50: 25 nM (Wnt)^[1]

In Vitro: IWP-4 is a small molecule Wnt inhibitor with an IC₅₀ of 25 nM. IWP-4 induces the expression of cardiac markers, including cardiac troponin I (CTNI) and cardiac myosin heavy chain bright cells (MYH^{hi} +). IWP-4 also results in the appearance of beating foci (0.44±0.10 SEM beats per second), which is absent in all cultures not receiving IWP-4. Further, flow cytometric analysis shows that there are significantly more MYH^{lo} + cells in IWP-4 treated cultures (P[1]. Mesenchymal precursor cells (MPCs) treated with IWP-4 show no significant changes in the expression of *AXIN2*, *CTNNB1* and *GSK3B* as compare to osteogenic medium alone on day 7, but MPCs treated with IWP-4 express elevates levels of *DKK1* and *GSK3β* on day 21. IWP-4 also causes a significant down regulation of *SPARC* and *COL1A1*^[2].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!