

## 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:**

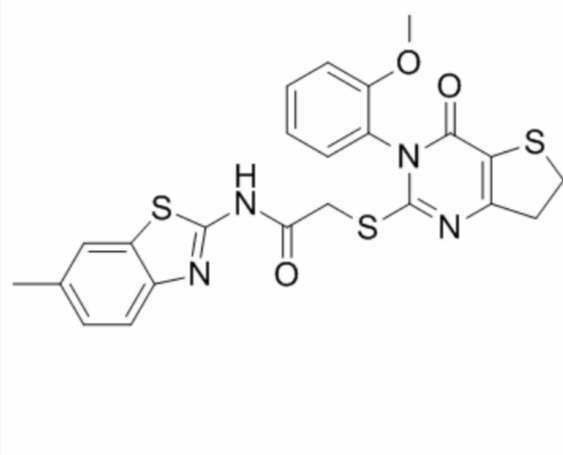
496.62

### Product Description

IWP-4 is a small molecule **Wnt** inhibitor with an **IC<sub>50</sub>** of 25 nM.

IC50 & Target: IC50: 25 nM (Wnt)<sup>[1]</sup>

**In Vitro:** IWP-4 is a small molecule Wnt inhibitor with an IC<sub>50</sub> of 25 nM. IWP-4 induces the expression of cardiac markers, including cardiac troponin I (CTNI) and cardiac myosin heavy chain bright cells (MYH<sup>hi+</sup>). 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<sup>lo+</sup> 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*<sup>[2]</sup>.



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