

# IWP-4

## Catalog No: tcsc0012738

Available Sizes

size: 1mg

size: 5mg

size: 10mg

size: 25mg

© Specifications

#### 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

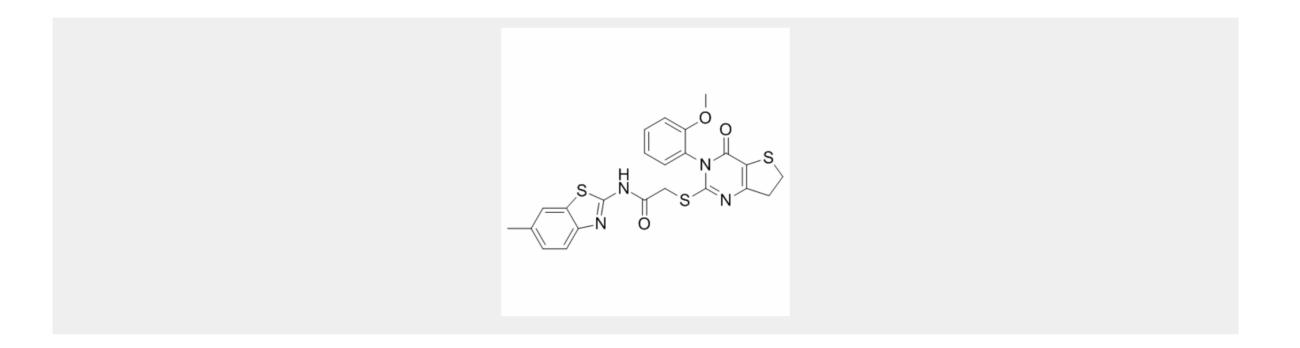
## **Product Description**

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>I0+</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>.



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