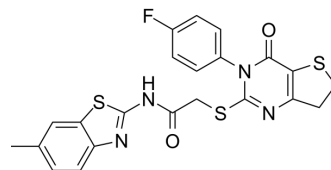


IWP-3

Cat. No.:	HY-100536
CAS No.:	687561-60-0
Molecular Formula:	C ₂₂ H ₁₇ FN ₄ O ₂ S ₃
Molecular Weight:	484.59
Target:	Wnt
Pathway:	Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (51.59 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	2.0636 mL	10.3180 mL	20.6360 mL	
5 mM	0.4127 mL	2.0636 mL	4.1272 mL	
10 mM	0.2064 mL	1.0318 mL	2.0636 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

IWP-3 is a potent inhibitor of Wnt production with an IC₅₀ of 40 nM. IWP-3 inhibits Porcupine (Porcn) function thereby blocking palmitoylation of Wnt proteins. IWP-3 inhibits CK1γ3 and CK1ε only moderately and does not inhibit CK1α^{[1][2]}.

REFERENCES

- [1]. Baozhi Chen, et al. Small molecule-mediated disruption of Wnt-dependent signaling in tissue regeneration and cancer. *Nat Chem Biol.* 2009 Feb;5(2):100-7.
- [2]. Balbina García-Reyes, et al. Discovery of Inhibitor of Wnt Production 2 (IWP-2) and Related Compounds As Selective ATP-Competitive Inhibitors of Casein Kinase 1 (CK1) δ/ε. *J Med Chem.* 2018 May 10;61(9):4087-4102.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA