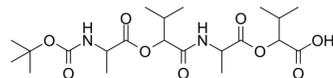


NSC668036

Cat. No.:	HY-117666	
CAS No.:	144678-63-7	
Molecular Formula:	C ₂₁ H ₃₆ N ₂ O ₉	
Molecular Weight:	460.52	
Target:	Wnt	
Pathway:	Stem Cell/Wnt	
Storage:	Powder	-20°C 3 years
	In solvent	-80°C 6 months
		-20°C 1 month



BIOLOGICAL ACTIVITY

Description	NSC668036 is a Dishevelled (Dvl) PDZ domain inhibitor with a K _d of 237 μM. NSC668036 blocks Wnt signaling by interrupting the Frizzled-Dvl interaction ^[1] .
In Vitro	In <i>Xenopus</i> , NSC668036 inhibited the signaling induced by Wnt3A ^[1] . NSC668036 (10 μM) suppresses β-catenin-driven gene transcription and abolished TGF-β1-induced migration, expression of collagen I and α-smooth muscle actin (α-SMA) in fibroblasts ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In Bleomycin-induced pulmonary fibrosis murine model, NSC668036 (5 mg/kg) significantly suppresses accumulation of collagen I, α-SMA, and TGF-β1 but increased the expression of CK19, Occludin and E-cadherin that can inhibit pulmonary fibrogenesis ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Jufang Shan, et al. Identification of a specific inhibitor of the dishevelled PDZ domain. *Biochemistry*. 2005 Nov 29;44(47):15495-503.
- [2]. Cong Wang, et al. Targeted inhibition of disheveled PDZ domain via NSC668036 depresses fibrotic process. *Exp Cell Res*. 2015 Feb 1;331(1):115-122.

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