PTK7/β-catenin-IN-6

MedChemExpress

Cat. No.:	HY-160493
CAS No.:	1219439-82-3
Molecular Formula:	$C_{25}H_{19}Cl_2N_3O_3$
Molecular Weight:	480.34
Target:	Wnt; β-catenin
Pathway:	Stem Cell/Wnt
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
Prepari Stock S	Preparing Stock Solutions	1 mM	2.0819 mL	10.4093 mL	20.8186 mL
		5 mM	0.4164 mL	2.0819 mL	4.1637 mL
		10 mM	0.2082 mL	1.0409 mL	2.0819 mL

BIOLOGICAL ACTIV		
Description	PTK7/β-catenin-IN-6 (Co	mpound 03653) is an inhibitor for PTK7/β-catenin interaction, which inhibits the Wnt signaling α anticancer activity against colorectal cancer (CRC) ^[1] .
In Vitro	through regulating the m migration ^[1] . PTK7/β-catenin-IN-6 (0-1 production, inhibits prol	μ M) misregulates the β-catenin responsive transcription and inihibits the Wnt signaling pathway nRNA expressions of Wnt signaling related genes, which are associated with cell proliferation and 0.00 μ M) arrests the cell cycle in G0/G1 phase through block of CyclinA2, CyclinE2 and CDK iferations of HCT116, SW480 and MEF with IC ₅₀ s of 20.1, 19.6 and 46.3 μ M, respectively ^[1] . Itly confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	HCT116, SW480 and MEF
	Concentration:	0-100 μΜ
	Incubation Time:	24 h

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Result:	Inhibited proliferations of cells HCT116, SW480 and MEF.	
Western Blot Analysis ^[1]		
Cell Line:	HCT116, SW480	
Concentration:	0-100 μΜ	
Incubation Time:	24 h	
Result:	Decreased levels of CyclinA2, CyclinE2 and CDK.	
RT-PCR ^[1]		
Cell Line:	HCT116, SW480	
Concentration:	25 μΜ	
Incubation Time:	24 h	
Result:	Increased mRNA levels of PLAUR, FOSL1 and NRP1. Decreased mRNA levels of AXIN2.	

REFERENCES

[1]. Ganier L, et al., Discovery of Small-Molecule Inhibitors of the PTK7/β-Catenin Interaction Targeting the Wnt Signaling Pathway in Colorectal Cancer. ACS Chem Biol. 2022 May 20;17(5):1061-1072.

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

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