

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

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GLI1-IN-1

®

MedChemExpress

Cat. No.: CAS No.: Molecular Formula: Molecular Weight:	HY-161459 2923907-92-8 C ₄₂ H ₆₀ N ₂ O ₉ 736.93	
Target: Pathway: Storage:	Apoptosis; Hedgehog; Gli Apoptosis; Stem Cell/Wnt Please store the product under the recommended conditions in the Certificate of	
	Analysis.	

DIOLOGICAL ACTIV		
Description	GLI1-IN-1 (CBC-1) is a GLI- and suppress the growth (1 inhibitor with excellent water solubility and anticancer activity. GLI1-IN-1 can induce apoptosis of colorectal cancer by inhibiting the Hedgehog(HH) (IC ₅₀ =1.3 μM) pathway ^[1] .
IC ₅₀ & Target	IC50: 1.3 μM (Hedgehog) ^{[1}	1.
In Vitro	GLI1-IN-1 (CBC-1) (5-40 µM mRNA and protein expres 3.33 µM, respectively. GLI MCE has not independent Apoptosis Analysis ^[1]	4; 24-48 h) exhibits anticancer activity by inhibiting cell proliferation through suppressing the sion of the HH pathway in HT-29, SW-480, and HCT-116 cells, with IC ₅₀ values of 7.13, 15.31, and 1-IN-1 (5-40 μM; 24 h) can also induce apoptosis in HT-29 cells ^[1] . ly confirmed the accuracy of these methods. They are for reference only.
	Cell Line:	HT-29
	Concentration:	5, 10, 20, 40 μM;
	Incubation Time:	24 h
	Result:	Increased the number of apoptotic cells in a concentration-dependent manner.
	RT-PCR ^[1]	
	Cell Line:	HT-29
	Concentration:	5, 10, 20, 40 μM;
	Incubation Time:	24 h, 48 h
	Result:	Decreased the mRNA expression of SHH, SMO, GLI1, and PTCH in a concentration- and time-dependent manner. Significantly reduced the mRNA expression levels of the apoptosis-related factor BCL-2 and increased the levels of the apoptosis-promoting factor BAX in a dose-dependent manner.
	Western Blot Analysis ^[1]	

Product Data Sheet

	Cell Line:	HT-29
	Concentration:	5, 10, 20, 40 μM;
	Incubation Time:	24 h
	Result:	Decreased the protein expression of SHH, SMO and GLI1 in a concentration-dependent manner.
vo	CBC-1 (50 mg/kg; i.p.; o tumor inhibition rate of MCE has not independe	nce daily for 16 days) can effectively inhibit tumor growth in xenograft models, with a remarkabl f 68% in BALB/c/nu/nu nude mice ^[1] . ently confirmed the accuracy of these methods. They are for reference only.
vo	CBC-1 (50 mg/kg; i.p.; o tumor inhibition rate of MCE has not independe Animal Model:	nce daily for 16 days) can effectively inhibit tumor growth in xenograft models, with a remarkabl f 68% in BALB/c/nu/nu nude mice ^[1] . ently confirmed the accuracy of these methods. They are for reference only. Tumour xenograft BALB/c/nu/nu nude mice model ^[1] .
vo	CBC-1 (50 mg/kg; i.p.; o tumor inhibition rate of MCE has not independe Animal Model: Dosage:	nce daily for 16 days) can effectively inhibit tumor growth in xenograft models, with a remarkabl f 68% in BALB/c/nu/nu nude mice ^[1] . ently confirmed the accuracy of these methods. They are for reference only. Tumour xenograft BALB/c/nu/nu nude mice model ^[1] . 50 mg/kg
vo	CBC-1 (50 mg/kg; i.p.; o tumor inhibition rate of MCE has not independe Animal Model: Dosage: Administration:	nce daily for 16 days) can effectively inhibit tumor growth in xenograft models, with a remarkable f 68% in BALB/c/nu/nu nude mice ^[1] . ently confirmed the accuracy of these methods. They are for reference only. Tumour xenograft BALB/c/nu/nu nude mice model ^[1] . 50 mg/kg Intraperitoneal injection (i.p.); Once daily for 16 days

REFERENCES

[1]. Chen J, et al. CBC-1 as a Cynanbungeigenin C derivative inhibits the growth of colorectal cancer through targeting Hedgehog pathway component GLI 1. Steroids. Published online April 11, 2024.

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

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