



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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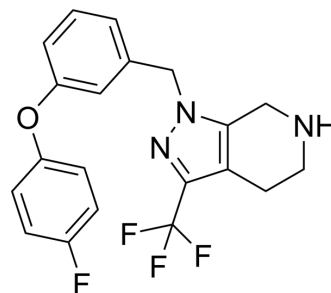
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EPIC-0628

Cat. No.:	HY-162384		
Molecular Formula:	C ₂₀ H ₁₇ F ₄ N ₃ O		
Molecular Weight:	391.36		
Target:	Histone Methyltransferase		
Pathway:	Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 200 mg/mL (511.04 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.5552 mL	12.7760 mL	25.5519 mL
		5 mM		0.5110 mL	2.5552 mL	5.1104 mL
10 mM		0.2555 mL	1.2776 mL	2.5552 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (12.78 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (12.78 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	EPIC-0628 is an inhibitor of the HOTAIR-EZH2 interaction and promotes ATF3 expression. The long noncoding RNA HOTAIR has been found to regulate glioblastoma (GBM) progression and mediate DNA damage repair (DDR) by interacting with the catalytic subunit EZH2 of PRC2. EPIC-0628 also inhibits the ATF3-p38-E2F1 DDR pathway to inhibit the HR pathway and upregulates CDKN1A (p21) expression, causing cell cycle arrest. EPIC-0628 also synergizes with Temozolomide (TMZ) (HY-17364) to enhance its in vivo potency ^[1] .
IC₅₀ & Target	EZH2
In Vitro	EPIC-0628 (20 μM; 48 h) arrests the U87 cell cycle in the G1 phase ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yang E, et al. EPIC-0628 abrogates HOTAIR/EZH2 interaction and enhances the temozolomide efficacy via promoting ATF3 expression and inhibiting DNA damage repair in glioblastoma. *Cancer Lett.* 2024 Apr 28;588:216812.

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

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