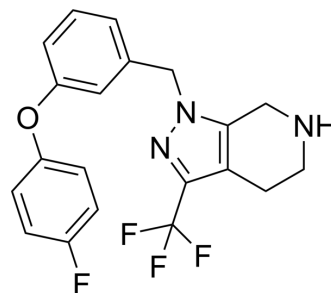


EPIC-0628

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:	Please store the product under the recommended conditions in the Certificate of Analysis.



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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