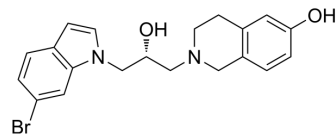


Antiproliferative agent-25

Cat. No.:	HY-155051
Molecular Formula:	C ₂₀ H ₂₁ BrN ₂ O ₂
Molecular Weight:	401.3
Target:	Apoptosis; Histone Methyltransferase
Pathway:	Apoptosis; Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Antiproliferative agent-25 (Compound 3s4) is a selective PRMT5 inhibitor (IC ₅₀ : 0.11 μM). Antiproliferative agent-25 up-regulates hnRNP E1 protein level. Antiproliferative agent-25 forms H-bond interactions with SAM and E444 residue of PRMT5. Antiproliferative agent-25 has antiproliferative effects against A549 cells by inducing apoptosis and inhibiting cell migration. Antiproliferative agent-25 has high clearances with T _{1/2} of only 21.8 and 4.7 min in human and rat liver microsomes ^[1] .
IC₅₀ & Target	0.11 μM (PRMT5) ^[1]

REFERENCES

[1]. Chu WH, et al. Discovery of tetrahydroisoquinolineindole derivatives as first dual PRMT5 inhibitors/hnRNP E1 upregulators: Design, synthesis and biological evaluation. *Eur J Med Chem.* 2023 Oct 5;258:115625.

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

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