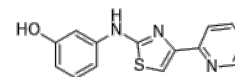


Product Name : KCC-07
Cat. No. : PC-25505
CAS No. : 315702-75-1
Molecular Formula : C₁₄H₁₁N₃OS
Molecular Weight : 269.32
Target : Histone Methyltransferase (HMTase)
Solubility : 10 mM in DMSO



CAS: 315702-75-1

Biological Activity

KCC-07 is a potent, selective and BBB-penetrable inhibitor of MBD2 (methyl CpG binding domain protein 2), prevents binding of MBD2 to methylated DNA, reactivates ADGRB1 expression and prevents MDM2-mediated p53 polyubiquitination.

KCC-07 abrogated MBD2 binding to the ADGRB1 promoter and restored BAI1 mRNA and protein expression in BAI1-silent MB cells.

KCC-07 inhibited MB cell growth in vitro, with induction of anti-proliferative BAI1/p53/p21 signaling.

KCC-07 (100 mg/kg i.p.; 5 days/week) inhibited MB growth in vivo by reactivating the BAI1-p53 tumor suppressor axis.

References

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Peng B, et al. Ann Med. 2025 Dec;57(1):2458207.

Dan Zhu, et al. Cancer Cell. 2018 Jun 11;33(6):1004-1016.e5.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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