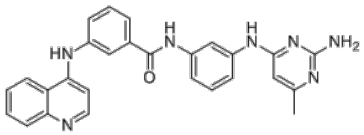
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	MC3343
Cat. No.	:	PC-35290
CAS No.	:	1535187-91-7
Molecular Formula	:	$C_{27}H_{23}N_7O$
Molecular Weight	:	461.529
Target	:	DNA Methyltransferase (DNMT)
Solubility	:	10 mM in DMSO



Biological Activity

MC3343 (MC-3343) is a novel potent, non-nucleoside **DNA methyltransferase (DNMT)** inhibitor with IC50 of 5.7 and 1.7 uM for DNMT1 and DNMT3a in cell-free assays, respectively.
MC3343 displays increased potency against DNMT1 compared with RG-108 and SGI-1027.
MC3343 efficiently inhibits OS cell proliferation and induces osteoblastic differentiation, induces dose- and time-dependent decreases in DNMT1, DNMT3a and DNMT3b protein levels in Saos-2 OS cells.
MC3343 displays synergistic effects with doxorubicin and cisplatin in vivo, reduces patient-derived xenograft OS growth and induces differentiation.

References

Manara MC, et al. ***Mol Cancer Ther.*** 2018 Jun 29. pii: molcanther.0818.2017.

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

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