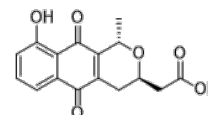


Product Name : Nanaomycin A
Cat. No. : PC-26866
CAS No. : 52934-83-5
Molecular Formula : C₁₆H₁₄O₆
Molecular Weight : 302.28
Target : DNA Methyltransferase (DNMT)
Solubility : 10 mM in DMSO



Biological Activity

Nanaomycin A is a quinone antibiotics and selective DNA methyltransferase DNMT3B inhibitor with IC₅₀ of 500 nM. Nanaomycin A inhibits the biosyntheses of protein, DNA, RNA and cell-wall peptidoglycan on Gram-positive such as *Staphylococcus aureus*, *Bacillus cereus* and *Streptococcus faecalis*.

Nanaomycin A inhibits in vitro growth of the human malaria parasite *Plasmodium falciparum* with IC₅₀ of 33.1 nM.

Nanaomycin A potently inhibits cell viability of HCT116 (colon), A549 (lung), and HL60 (bone marrow) with IC₅₀ of 0.4 uM, 4.1 uM and 0.8 uM respectively.

References

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Marumo H, et al. *J Antibiot (Tokyo).* 1980 Aug;33(8):885-90.

Tanaka Y, et al. *J Antibiot (Tokyo).* 1999 Oct;52(10):880-8.

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

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