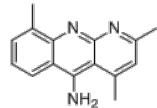

Product Name	:	AR03
Cat. No.	:	PC-60677
CAS No.	:	510721-85-4
Molecular Formula	:	C ₁₅ H ₁₅ N ₃
Molecular Weight	:	237.306
Target	:	Other Targets
Solubility	:	10 mM in DMSO



Biological Activity

AR03 (BMH-23, AR03, Ape1 repair inhibitor 03) is a novel small molecule inhibitor of DNA repair protein apurinic/apyrimidinic endonuclease 1 (**APE1**) endonuclease activity with IC₅₀ of 5 uM.

AR03 shows 8-fold less effectivity in inhibiting endonuclease IV, and no effect on the redox activity of Ape1 or the ability of c-Jun/c-Fos to bind DNA.

AR03 has low affinity for double-stranded DNA and weakly inhibits the Escherichia coli endonuclease IV, requiring a 20-fold higher concentration than for inhibition of Ape1.

AR03 potentiates the cytotoxicity of methyl methanesulfonate and temozolomide in SF767 cells.

References

Bapat A, et al. *J Pharmacol Exp Ther.* 2010 Sep 1;334(3):988-98.

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

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