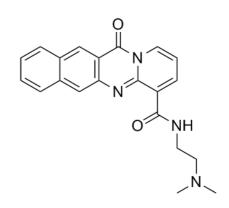


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Product Name	:	BMH-21
Cat. No.	:	PC-43056
CAS No.	:	896705-16-1
Molecular Formula	:	C ₂₁ H ₂₀ N ₄ O ₂
Molecular Weight	:	360.4091
Target	:	DNA/RNA Synthesis
Solubility	:	10 mM in DMSO

Data Sheet

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Biological Activity

BMH-21 is a RNA polymerase I inhibitor with wide and potent antitumorigenic activity across NCI60 cancer cell lines with mean GI50 of 160 nM, interacts with GC-Rich rDNA, potently and rapidly represses **RNA polymerase I (Pol I)** transcription. BMH-21 inhibits the expression of 47S rRNA transcript with IC50 of 60 nM, blocks transcription of the rRNA precursor without affecting rRNA maturation, and causes segregation of nucleolar proteins. BMH-21 causes proteasome-mediated degradation of RPA194 (Pol I catalytic subunit).

BMH-21 activates p53 and inhibits TP53 null and mutant cell lines with GI50 of 110 and 205 nM, respectively.

References

Peltonen K, et al. *Cancer Cell.* 2014 Jan 13;25(1):77-90.
Colis L, et al. *J Med Chem.* 2014 Jun 12;57(11):4950-61.
Colis L, et al. *Oncotarget.* 2014 Jun 30;5(12):4361-9.
Peltonen K, et al. *Mol Cancer Ther.* 2014 Nov;13(11):2537-46.

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

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