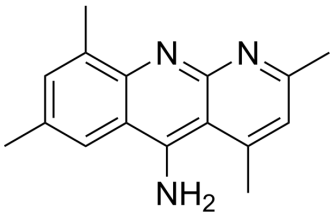
BMH-22

Cat. No.:	HY-118723
CAS No.:	309726-06-5
Molecular Formula:	$C_{16}H_{17}N_3$
Molecular Weight:	251.33
Target:	DNA/RNA Synthesis
Pathway:	Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BMH-22, a benzonaphthyridin, is a RNA polymerase I (Pol I) transcription inhibitor independent of p53 function. BMH-22 causes reorganization of nucleolar marker proteins consistent with segregation of the nucleolus. BMH-22 destabilizes RPA194 in a proteasome-dependent manner and inhibits nascent rRNA synthesis and expression of the 45S rRNA precursor. BMH-22 shows potent anticancer activity across many tumor types[1].

REFERENCES

[1]. RPA194, rRNA synthesis, 45S Rrna, anticancerKarita Peltonen, et al. Small molecule BMH-compounds that inhibit RNA polymerase I and cause nucleolar stress. Mol Cancer Ther. 2014 Nov;13(11):2537-46.

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