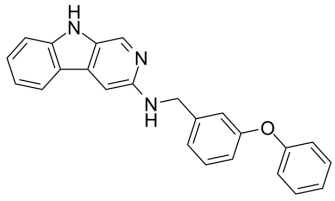
3-(3-Phenoxybenzyl)amino-β-carboline

Cat. No.:	HY-150511
CAS No.:	1327080-54-5
Molecular Formula:	$C_{24}H_{19}N_3O$
Molecular Weight:	365.43
Target:	Microtubule/Tubulin; Apoptosis
Pathway:	Cell Cycle/DNA Damage; Cytoskeleton; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	3-(3-Phenoxybenzyl)amino-β-carboline is a potent tubulin inhibitor. 3-(3-Phenoxybenzyl)amino-β-carboline promotes selective degradation of αβ-tubulin heterodimers. 3-(3-Phenoxybenzyl)amino-β-carboline induces G2/M phase cell cycle arrest and apoptosis. 3-(3-Phenoxybenzyl)amino-β-carboline exhibits anticancer activity[1].
In Vitro	3-(3-Phenoxybenzyl)amino-β-carboline specifically denatures tubulin, making it prone to aggregation that predisposes it to ubiquitinylation and then degradation[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yang J, et al. Small Molecules Promote Selective Denaturation and Degradation of Tubulin Heterodimers through a Low-Barrier Hydrogen Bond. J Med Chem. 2022 Jun 28.

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