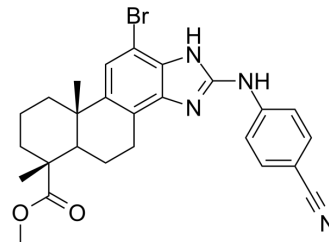


PI3K α -IN-8

Cat. No.:	HY-147983
Molecular Formula:	C ₂₆ H ₂₇ BrN ₄ O ₂
Molecular Weight:	507.42
Target:	PI3K; Reactive Oxygen Species; Apoptosis
Pathway:	PI3K/Akt/mTOR; Immunology/Inflammation; Metabolic Enzyme/Protease; NF- κ B; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PI3K α -IN-8 (Compound 9g) is a selective PI3K α inhibitor with an IC ₅₀ of 0.012 μ M. PI3K α -IN-8 increases intracellular reactive oxygen species level, decreases mitochondrial membrane potential and induces apoptosis ^[1] .			
IC₅₀ & Target	PI3K α 0.012 μ M (IC ₅₀)	PI3K δ 0.11 μ M (IC ₅₀)	PI3K γ 0.18 μ M (IC ₅₀)	PI3K β 0.21 μ M (IC ₅₀)
In Vitro	PI3K α -IN-8 (Compound 9g) exhibits anticancer activity with IC ₅₀ values of 0.18 \pm 0.03, 0.43 \pm 0.05, 0.71 \pm 0.08 and 0.63 \pm 0.09 μ M against HCT-116, MCF-7, HeLa and HepG2 cells, respectively ^[1] . PI3K α -IN-8 upregulates Bax and cleaved caspase-3/9 levels, and downregulates Bcl-2 level ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

REFERENCES

[1]. Yang YQ, et al. Synthesis and anticancer evaluation of novel 1H-benzo[d]imidazole derivatives of dehydroabiatic acid as PI3K α inhibitors. Bioorg Chem. 2020 Jul;100:103845.

Caution: Product has not been fully validated for medical applications. For research use only.

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