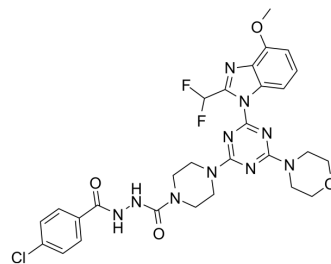


PI3K α -IN-14

Cat. No.:	HY-157125
CAS No.:	3026856-46-9
Molecular Formula:	C ₂₈ H ₂₉ ClF ₂ N ₁₀ O ₄
Molecular Weight:	643.04
Target:	PI3K; Apoptosis
Pathway:	PI3K/Akt/mTOR; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PI3K α -IN-14 (compound F8) is a selective PI3K α inhibitor with an IC ₅₀ of 0.14 nM. PI3K α -IN-14 induces a great decrease in mitochondrial membrane which caused cell cycle arrest at G1 phase and apoptosis in U87-MG cells. PI3K α -IN-14 shows significant anti-proliferative activities against three tumor-derived cell lines (PC-3: IC ₅₀ of 0.28 μ M; HCT-116: IC ₅₀ of 0.57 μ M; and U87-MG: IC ₅₀ of 1.37 μ M) ^[1] .			
IC₅₀ & Target	PI3K α 0.14 nM (IC ₅₀)	PI3K γ 2.45 nM (IC ₅₀)	PI3K δ 5.69 nM (IC ₅₀)	PI3K β 25.89 nM (IC ₅₀)

REFERENCES

[1]. Siyu Fu, et al. Structure-based drug design, synthesis, and biological evaluation of novel 1,3,5-triazine or pyrimidine derivatives containing benzoyl hydrazine moiety as PI3K α selective inhibitors. *Bioorg Chem.* 2023 Nov;140:106738.

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

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