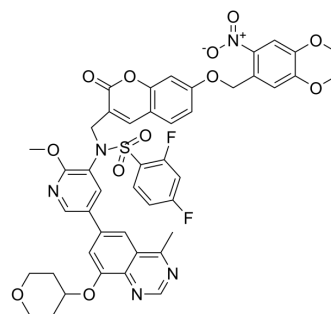


PI3K-IN-41

Cat. No.:	HY-155730
Molecular Formula:	C ₄₅ H ₃₉ F ₂ N ₅ O ₁₂ S
Molecular Weight:	911.88
Target:	PI3K
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PI3K-IN-41 (compound 2) is a photocaged compound, as well as a photocaged PI3K inhibitor (IC ₅₀ =18.92 nM) with anticancer properties. PI3K-IN-41 has potential to be used in precisely controlled cancer therapeutics. PI3K-IN-41 exhibits potent PI3K inhibition upon UV light irradiation, and enhances antitumor effect ^[1] .
IC₅₀ & Target	IC ₅₀ :18.92 nM (PI3K) ^[1]
In Vitro	PI3K-IN-41 (compound 2) (10 nM) decreases AKT phosphorylation in HGC-27 cells, and (1-10 μM) inhibits colony formation of HGC-27 cells, after exposure to UV light irradiation for 5 min, 15 min, and 30 min ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Tian H, et al. Discovery of a Novel Photocaged PI3K Inhibitor Capable of Real-Time Reporting of Drug Release. ACS Med Chem Lett. 2023 Jul 24;14(8):1100-1107.

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

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