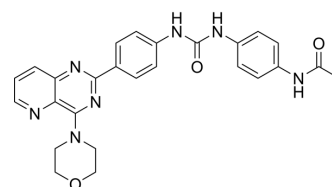


PI3K α -IN-1

Cat. No.:	HY-124647
CAS No.:	2100855-80-7
Molecular Formula:	C ₂₆ H ₂₅ N ₇ O ₃
Molecular Weight:	483.52
Target:	PI3K
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	PI3K α -IN-1 is a PI3K α inhibitor (IC ₅₀ < 0.5 nM), and also inhibits mTOR (IC ₅₀ : 104 nM) ^[1] .
IC₅₀ & Target	PI3K α <0.5 nM (IC ₅₀)
In Vitro	PI3K α -IN-1 shows good stability in the mouse liver microsome assay (t _{1/2} values > 60 minutes) ^[1] . PI3K α -IN-1 (48 h) induces cytotoxicity in MDC7 cells with an IC ₅₀ value of around 170 nM ^[1] . PI3K α -IN-1 (15-250 nM) inhibits phospho4EBP, phosphor-P70SK6 and phospho-473AKT in MCF7 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Al-Ashmawy AAK, et al. Design, synthesis and SAR of new-di-substituted pyridopyrimidines as ATP-competitive dual PI3K α /mTOR inhibitors. Bioorg Med Chem Lett. 2017 Jul 15;27(14):3117-3122.

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

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