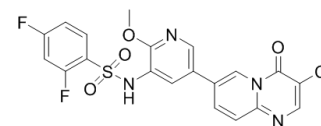


PI3K/mTOR Inhibitor-2

Cat. No.:	HY-111508
CAS No.:	1848242-58-9
Molecular Formula:	C ₂₀ H ₁₃ ClF ₂ N ₄ O ₄ S
Molecular Weight:	478.86
Target:	PI3K; mTOR
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	PI3K/mTOR Inhibitor-2 is a potent dual pan-PI3K/mTOR inhibitor with IC ₅₀ s of 3.4/34/16/1 nM for PI3K α /PI3K β /PI3K δ /PI3K γ and 4.7 nM for mTOR ^[1] . Antitumor activity ^[1] .			
IC ₅₀ & Target	PI3K α 3.4 nM (IC ₅₀)	PI3K β 34 nM (IC ₅₀)	PI3K δ 16 nM (IC ₅₀)	PI3K γ 1 nM (IC ₅₀)
	mTOR 4.7 nM (IC ₅₀)			
In Vitro	PI3K/mTOR Inhibitor-2 (Compound 31) inhibits p-AKT and p-p70s6k in MCF-7 cells with IC ₅₀ s of 11.6 and 89.2 nM, respectively ^[1] .			

REFERENCES

[1]. Yu T, et al. Discovery of Pyridopyrimidinones as Potent and Orally Active Dual Inhibitors of PI3K/mTOR. ACS Med Chem Lett. 2018 Feb 27;9(3):256-261.

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

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