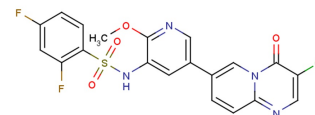


PI3K/mTOR Inhibitor-2

Chemical Properties

CAS No.:	1848242-58-9
Formula:	C ₂₀ H ₁₃ ClF ₂ N ₄ O ₄ S
Molecular Weight:	478.86
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	PI3K/mTOR Inhibitor-2 is a potent dual inhibitor of pan-PI3K/mTOR(PI3K α /PI3K β /PI3K δ /PI3K γ /mTOR with IC ₅₀ s of 3.4/34/16/1/4.7 nM).
Targets(IC ₅₀)	PI3K α : 3.4 nM PI3K β : 34 nM PI3K δ : 16 nM PI3K γ : 1 nM mTOR: 4.7 nM
In vitro	PI3K/mTOR Inhibitor-2(Compound 31) exhibited high enzyme activity against PI3K and mTOR, potent suppression of Akt and p70s6k phosphorylation in cell assays, and good pharmacokinetic profile.
In vivo	PI3K/mTOR Inhibitor-2(Compound 31) demonstrated in vivo efficacy in a PC-3M tumor xenograft model.

Solubility Information

Solubility	DMSO: 8.33 mg/mL (17.40 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.088 mL	10.441 mL	20.883 mL
5 mM	0.418 mL	2.088 mL	4.177 mL
10 mM	0.209 mL	1.044 mL	2.088 mL
50 mM	0.042 mL	0.209 mL	0.418 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

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