FLI-06

Cat. No.:	HY-15860			
CAS No.:	313967-18-	9		
Molecular Formula:	$C_{25}H_{30}N_2O_5$			
Molecular Weight:	438.52			
Target:	Notch			
Pathway:	Neuronal Signaling; Stem Cell/Wnt			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

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SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 38 mg/mL (86.66 mM) * "≥" means soluble, but saturation unknown.						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.2804 mL	11.4020 mL	22.8040 mL		
		5 mM	0.4561 mL	2.2804 mL	4.5608 mL		
	10 mM	0.2280 mL	1.1402 mL	2.2804 mL			
	Please refer to the sol	ubility information to select the ap	propriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.70 mM); Suspended solution; Need ultrasonic						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.70 mM); Clear solution						

BIOLOGICALACITI				
Description	FLI-06 is an inhibitor of Notch signaling with an EC $_{50}$ of 2.3 $\mu\text{M}.$			
IC ₅₀ & Target	EC50: 2.3 μM (Notch signaling) ^[1]			
In Vitro	FLI-06, disrupted the Golgi apparatus in a manner distinct from that of brefeldin A and golgicide A. FLI-06 inhibited general secretion at a step before exit from the endoplasmic reticulum. In FLI-06–treated cells, no APPCTF accumulates despite strongly reduced Aβ secretion, suggesting that it acts upstream of α-secretase and β-secretase cleavage. FLI-06 is a very useful chemical probe to study the inhibition of membrane traffic at pre- ER-exit site (ERES) stages without fusion of ER-Golgi ^[1] .			

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PROTOCOL

Kinase Assay [1]EC₅₀ values of the test compounds are calculated from serial dilution series ranging from 200 to 0.1 μM. Cells are seeded in
96-well plates at a density of 5,000 cells per well in 100 μL medium. The next day, 100 μL medium containing each test
compound is added. Cells are incubated for 16 h, fixed and processed for automated microscopy. EC₅₀ estimates are
calculated using four-parameter log-logistic fit with the package drc^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Pharmacol Res. 2019 Oct;148:104406.
- Cell Death Dis. 2020 Nov 15;11(11):981.
- Biomed Pharmacother. 2018 Nov;107:1370-1376.
- Int J Mol Med. 2018 Aug;42(2):1008-1017.
- Fundam Clin Pharmacol. 2020 Oct 4.

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REFERENCES

[1]. Kramer A, et al. Small molecules intercept Notch signaling and the early secretory pathway. Nat Chem Biol. 2013 Nov;9(11):731-8.

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

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