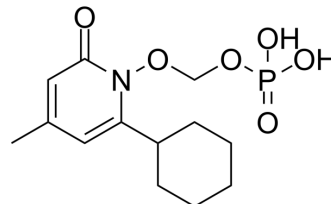


Fosciclopirox

Cat. No.:	HY-109174		
CAS No.:	1380539-06-9		
Molecular Formula:	C ₁₃ H ₂₀ NO ₆ P		
Molecular Weight:	317.27		
Target:	γ-secretase		
Pathway:	Neuronal Signaling; Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (315.19 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.1519 mL	15.7594 mL	31.5189 mL
	5 mM	0.6304 mL	3.1519 mL	6.3038 mL
	10 mM	0.3152 mL	1.5759 mL	3.1519 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.08 mg/mL (6.56 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.08 mg/mL (6.56 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.08 mg/mL (6.56 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Fosciclopirox suppresses growth of urothelial cancer by targeting the γ-secretase complex. Fosciclopirox selectively delivers the active metabolite, Ciclopirox (CPX), to the entire urinary tract^{[1][2]}. Ciclopirox has anticancer activity in a number of solid and hematologic malignancies.

REFERENCES

[1]. Weir SJ, Dandawate P, Standing D, Bhattacharyya S, Ramamoorthy P, Rangarajan P, Wood R, Brinker AE, Woolbright BL, Tanol M, Ham T, McCulloch W, Dalton M, Reed GA, Baltezor MJ, Jensen RA, Taylor JA 3rd, Anant S. Foscicliprox suppresses growth of high-grade urothelial cancer by targeting the γ -secretase complex. Cell Death Dis. 2021 May 31;12(6):562.

[2]. Weir SJ, Wood R, Schorno K, Brinker AE, Ramamoorthy P, Heppert K, Rajewski L, Tanol M, Ham T, McKenna MJ, McCulloch W, Dalton M, Reed GA, Jensen RA, Baltezor MJ, Anant S, Taylor JA 3rd. Preclinical Pharmacokinetics of Foscicliprox, a Novel Treatment of Urothelial Cancers, in Rats and Dogs. J Pharmacol Exp Ther. 2019 Aug;370(2):148-159.

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

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