PF-06821497

Cat. No.: HY-101571A CAS No.: 1844849-10-0 Molecular Formula: $C_{22}H_{24}Cl_2N_2O_5$ Molecular Weight: 467.34

Target: Epigenetic Reader Domain; Histone Methyltransferase

Pathway: **Epigenetics**

Powder Storage: -20°C 3 years

2 years

In solvent -80°C 6 months

> -20°C 1 month

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (213.98 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.1398 mL	10.6988 mL	21.3977 mL
	5 mM	0.4280 mL	2.1398 mL	4.2795 mL
	10 mM	0.2140 mL	1.0699 mL	2.1398 mL

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

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.35 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.35 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.35 mM); Clear solution

BIOLOGICAL ACTIVITY

Description PF-06821497 (compound 23a) is a potent, selective and orally active Enhancer of Zeste Homolog 2 (EZH2) inhibitor, with a Ki value <0.1 nM against mutant Y641N EZH2. Exhibits robust tumor growth inhibition $^{[1]}$.

Ki: <0.1 nM (Y641N EZH2)[1]. IC₅₀ & Target

In Vivo PF-06821497 (compound 23a: 100 mg/kg, PO twice daily for 31 days) treatment results in significant inhibition of tumor growth, and the the tumor regressition effect can be sustained for another 40 days after the terminal administration^[1].

	lose of 300 mg/kg has minimal impact on animal body weights ^[1] . ently confirmed the accuracy of these methods. They are for reference only.
Animal Model:	Mice bearing Karpas-422 DLBCL tumor xenografts (which contain the Y641N EZH2 mutation) $^{[1]}$.
Dosage:	100 mg/kg and 300 mg/kg.
Administration:	PO twice daily for 31 days.
Result:	100 mg/kg dose resulted in significant inhibition of tumor growth and 300 mg/kg dose minimal effected animal body weights.

REFERENCES

[1]. Kung PP, et al. Optimization of Orally Bioavailable Enhancer of Zeste Homolog 2 (EZH2) Inhibitors Using Ligand and Property-Based Design Strategies: Identification of Development Candidate (R)-5,8-Dichloro-7-(methoxy(oxetan-3-yl)methyl)-2-((4-methoxy-6-methyl-2-oxo-1,2-dihydropyridin-3-yl)methyl)-3,4-dihydroisoquinolin-1(2H)-one (PF-06821497). J Med Chem. 2018 Feb 8;61(3):650-665.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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